Environmental Assessment
for HUD-funded Proposals

Recommended format per 24 CFR 58.36, revised March 2005
[Previously recommended EA formats are obsolete]

Project Identification: Crossroads Affordable Housing Project
1990-2030 Burbank Avenue
Santa Rosa, CA 95407

Responsible Entity: City of Santa Rosa

Preparer: AEM Consulting

Month/Year: May 2016
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Preface

An Environmental Assessment under the National Environmental Policy Act of 1969 was conducted for this project, known as “Crossroads” by the Sonoma County Community Development Commission in 2012. The Sonoma County Community Development Commission also conducted an 8-Step Decision Making process for projects located in a wetland for compliance with Executive Order 11990. The determination made in the Environmental Assessment resulted in a Finding of No Significant Impact on the Environment. The appeal period and environmental clearance was achieved with the receipt of the Authority to Use Grant Funds dated April 26, 2012.

Since 2012, the project has not achieved enough funding to develop the project. The project proposal, subject property and the environmental factors addressed in the Environmental Assessment of 2012 have not changed.

The City of Santa Rosa proposes to award federal funds to the project, in the form of Home Investment Partnerships Program funds, a program of the U.S. Housing and Urban Development, as administered by the City of Santa Rosa. To comply with NEPA, the City will adopt this Environmental Assessment in year 2016 and publish its own Finding of No Significant Impact. The City will accept public comments on the project as well as any agency comments before requesting the release of funds.

This Environmental Assessment has updated information where necessary, but much remains the same as when the original proposal’s environmental impacts were analyzed by the County of Sonoma in 2012.

*Please also note that subsequent to the Environmental Review in 2012, the street number addressing has been changed from 1980-2010 Burbank Avenue to 1990-2030 Burbank Avenue in Santa Rosa, California 95407. Both addresses refer to the same assessor parcel numbers 125-421-018 and -019 and may be used interchangeably.
Environmental Assessment

Responsible Entity:  
[24 CFR 58.2(a) (7)]  
City of Santa Rosa

Certifying Officer:  
[24 CFR 58.2(a) (2)]  
Clare Hartman, Deputy Director of Planning and Economic Development

Project Name:  
Crossroads Affordable Housing

Project Location:  
1990-2030 Burbank Avenue, Santa Rosa, CA 95407  
(APNs 125-421-018 and 125-421-019)

Estimated total project cost:  
$38,518,488

Grant Recipient  
[24 CFR 58.2(a) (5)]:

Recipient Address:

Project Representative:  
Frank Kasimov, Program Specialist

Telephone Number:  
(707) 543-3465

Conditions for Approval:  (List all mitigation measures adopted by the responsible entity to eliminate or minimize adverse environmental impacts. These conditions must be included in project contracts or other relevant documents as requirements).  
[24 CFR 58.40(d), 40 CFR 1505.2(c)]

Air Quality

AQ1. The following measures shall be imposed as appropriate during construction to reduce Toxic Air Contaminants (TACs):

a) Water all active construction areas at least twice daily;
b) Cover all trucks hauling soil, sand, and other loose materials or require all truck to maintain at least two feet of freeboard;
c) Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites;
d) Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites.
e) Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets;
f) Reduce unnecessary idling of construction equipment (i.e., limit idling time to 10 minutes or less) in proximity to sensitive receptors;
g) Where possible, use newer, cleaner-burning diesel-powered construction equipment;
h) Properly maintain construction equipment per manufacturer specifications; and
i) Designate a Disturbance Coordinator responsible for ensuring that mitigation measures to reduce air quality impacts from construction are properly implemented.
Cultural Resources

CR1. Prior to commencement of on-site construction activities, a qualified archaeologist shall provide a brief training for construction personnel regarding cultural resources. The purpose of the training is to ensure that construction staff is trained to recognize potential resources.

CR2. If cultural resources are discovered during the project construction (inadvertent discoveries), all work in the area of the find shall cease, and a qualified archaeologist and representatives of the culturally affiliated tribe shall be retained by the project sponsor to investigate the find, and make recommendations as to treatment and mitigation of any impacts to those resources.

CR3. If human remains are encountered, all activity shall stop and the County Coroner must be notified immediately. All activity must cease until the County Coroner has determined the origin and disposition of said remains. The Coroner shall determine if the remains are prehistoric, and shall notify the State Native American Heritage Commission if applicable. Further actions shall be determined by the desires of the Most Likely Descendent.

CR4. The Public Improvement Plans and Building Plans shall contain the following note: “In the event that any remains of prehistoric or historic human activities are encountered during project-related activities, work in the immediate vicinity of the finds shall halt and the contractor shall immediately notify the project superintendent and the City of Santa Rosa liaison. Work shall not resume until a qualified archaeologist or historic archaeologist, as appropriate, approved by the Sonoma County Community Development Commission, has evaluated the situation and made recommendations for treatment of the resource, which recommendations are carried out. If human burials are encountered, the contractor must also contact the County Coroner.”

Endangered Species

ES1. The project proponent shall minimize the potential for harm, harassment, or killing of federally listed species (i.e. California tiger salamander) resulting from project related activities by implementation of the conservation measures as described in the August 21, 2006, Biological Assessment, and appearing in the Description of the Proposed Action section of the U.S. Fish & Wildlife Service (Service) biological opinion.

ES2. The project proponent shall make the terms and conditions in this biological opinion a required term in all contracts for the proposed action that are issued to all contractors.

ES3. The project proponent shall designate a Superintendent or other designee who will be responsible for implementing the conservation measures and Terms and Conditions of the biological opinion and shall be the point of contact for the proposed action. The Superintendent shall maintain a copy of the biological opinion onsite whenever construction is taking place. Their name and telephone number shall be provided to the Service at least thirty (30) calendar days prior to groundbreaking at the project. Prior to groundbreaking, the Superintendent must submit a letter to the Service verifying that they possess a copy of the biological opinion and have read the Terms and Conditions.

ES4. A qualified biologist(s) or trained monitor(s) shall be onsite during all activities that may result in the take of the Sonoma County Distinct Population Segment of the California tiger salamander. The qualifications of the biologist(s) and monitor(s) must be presented to the Service for review and written approval prior to ground-breaking at the project site. Prior to approval, the biologist(s) and monitor(s) must submit a letter to the Service verifying that they possess a copy of this biological opinion and understand its Terms and Conditions. The biologist(s) and monitor(s) will keep a copy of this biological opinion in their possession when onsite. The biologist(s) and monitor(s) shall be given the authority to stop any work that may result in take of this listed animal species. If the biologist(s) or monitor(s) exercises this authority, the Service and
the California Department of Fish & Wildlife (CDFW) shall be notified by telephone and electronic mail within one (1) working day. The Service contact is Chris Nagano, Chief, Endangered Species Division at the Sacramento Fish and Wildlife Office at telephone (916) 414-6600.

ES5. The onsite biologist(s) or monitor(s) shall have oversight over implementation of all the Terms and Conditions in this biological opinion, and shall have the authority to stop project activities, through communication with the Superintendent, if any of the requirements associated with these Terms and Conditions are not being fulfilled. If the biologist/construction liaison has requested a stop work due to take of any of the listed species the Service and the CDFG will be notified within one (1) working day via email or telephone.

ES6. Permanent and temporary disturbances and other types of project-related disturbance to habitats of the California tiger salamander shall be limited to the boundaries of the project site.

ES7. Prior to the initiation of ground disturbance on the project site, pre-construction surveys shall be conducted by a Service-approved biologist(s) for the California tiger salamander. These surveys shall consist of walking surveys of the project site and adjacent areas accessible to the public to determine presence of the species. California tiger salamanders will be removed by the biologist(s) and translocated under the direction and authorization of the Service and as described in the Conservation Strategy.

ES8. All California tiger salamanders captured on the project site during monitoring and inspections conducted during construction will be removed by the biologist(s) and translocated under the direction and authorization of the Service and as described in the Conservation Strategy.

ES9. To prevent inadvertent entrapment of California tiger salamanders during construction, all excavated, steep-walled holes or trenches more than 2 feet (0.61 meters) deep shall be covered at the close of each working day by plywood or similar materials, or provided with one or more escape ramps constructed of earth fill or wooden planks. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals. If at any time a trapped listed animal is discovered, the on-site biologist should immediately place escape ramps or other appropriate structures to allow the animal to escape, or the Service and/or CDFG shall be contacted by telephone for guidance. The Service shall be notified of the incident by telephone and electronic mail within one working day.

ES10. The construction area at the project site shall be delineated with high visibility temporary fencing at least 4 feet (1.2 meters) in height, flagging, or other barrier to prevent encroachment of construction personnel and equipment onto any sensitive areas during project work activities. Such fencing shall be inspected and maintained daily until completion of the project. The fencing will be removed only when all construction equipment is removed from the site. Actions within the project area shall be limited to vehicle and equipment operation on existing roads. No project activities will occur outside the delineated project construction area.

ES11. Plastic mono-filament netting (erosion control matting), or similar material, shall not be used on the project site because California tiger salamanders may become entangled or trapped in it. Acceptable substitutes include coconut coir matting or tackified hydroseeding compounds.

ES12. Project employees shall be provided with written guidance governing vehicle use, speed limits on unpaved roads, fire prevention, and other hazards.

ES13. An outline of the employee training program shall be submitted to the Endangered Species Program at the Sacramento Fish and Wildlife Office within twenty (20) working days prior to the start of construction. Documentation of the training, including individual signed affidavits, will be kept of file and available on request.
ES14. If requested, before, during, or upon completion of ground breaking and construction activities, the project proponent shall allow access by Service and/or CDFG personnel to the project site to inspect project effects to the California tiger salamander and its habitat.

ES15. The project proponent shall provide the Service with adequate annual written reports that describe the progress or implementation of all of the Terms and Conditions of this biological opinion. The first report is due December 31, the first year of groundbreaking, and annually thereafter on December 31 until all of the terms and conditions are completed, as stated in writing by the Service. The reports shall be addressed to Ryan Olah, Coast Bay Delta Branch Chief, Sacramento Fish and Wildlife Office.

ES16. The project proponent shall report to the Service any information about take or suspected take of listed wildlife species not authorized in this biological opinion. The project proponent must notify the Service via electronic mail and telephone within 24 hours of receiving such information. Notification must include the date, time, location of the incident or of the finding of a dead or injured animal, and photographs of the specific animal. The individual animal shall be preserved, as appropriate, and held in a secure location until instructions are received from the Service regarding the disposition of the specimen or the Service takes custody of the specimen. The Service contacts are Chris Nagano, Deputy Assistant Field Supervisor, Endangered Species Program, Sacramento Fish and Wildlife Office at (916) 414-6600, and the Service’s Law Enforcement Division at (916) 414-6660.

ES17. The U.S. Department of Housing and Urban Development\(^1\) shall submit post-construction compliance reports prepared by the on-site biologist to the Sacramento Fish and Wildlife Office within sixty (60) calendar days of the date of the completion of construction activity on the project site. These reports shall adequately describe (i) dates that construction occurred; (ii) pertinent information concerning the success of the project in meeting compensation and other conservation measures; (iii) an explanation of failure to meet such measures, if any; (iv) known project effects on the California tiger salamander and listed plants, if any; (v) occurrences of incidental take of any of these listed species, if any; (vi) documentation of employee environmental education; and (vii) other pertinent information.

ES18. The Service must be notified within 24 hours of the finding of any injured or dead California tiger salamander, or any unanticipated damage to its habitat associated with the proposed action. Injured California tiger salamanders shall be cared by a licensed veterinarian or other qualified person. Notification must include the date, time, and precise location of the specimen/incident, and any other pertinent information. Dead animals should be sealed in a zip lock bag containing a piece of paper indicating the location, date and time when it was found, and the name of the person who found it; and the bag should be frozen in a freezer in a secure location. The Service contact persons are Chris Nagano, Deputy Assistant Field Supervisor (Endangered Species Program) at the Sacramento Fish and Wildlife Office at 916/414-6600 and Resident Agent-in-Charge Scott Heard of the Service’s Law Enforcement Division at telephone 916/414-6660.

ES19. In order for the Service to be kept informed of actions minimizing or avoiding adverse effects or benefiting listed species or their habitats, the Service requests notification of the implementation of any conservation recommendations for plant species. The conservation recommendations follow.

\(^1\) HUD has designated the Certifying Officer as its representative.
ES20. The employee education program conducted before groundbreaking for the proposed action should also include information about the Burke's goldfields, Sonoma sunshine, and Sebastopol meadowfoam, including a description of their habitat needs; their status and protection; and a description of the measures being taken to reduce effects to these species during project construction and implementation.

ES21. The project proponent should attempt to translocate any listed plants, including their seeds and/or soils containing seeds, within the action area under the authorization and direction of the Service and as outlined in the Conservation Strategy.

ES22. Encourage or require the use of appropriate California native species in re-vegetation and habitat enhancement efforts associated with projects authorized by the U.S. Department of Housing and Urban Development.

ES23. Facilitate educational programs geared toward the importance and conservation of seasonal wetlands.

ES24. Encourage seed banking in Center for Plant Conservation certified botanic gardens (provided the seed collection does not adversely affect the source populations).

ES25. Assist the Service in implementing the Conservation Strategy and recovery actions being developed for the California tiger salamander, Burke's goldfields, Sonoma sunshine, Sebastopol meadowfoam, and many-flowered Navarretia.

ES26. Sightings of any listed or sensitive species should be reported to the California Natural Diversity Database of the California Department of Fish and Wildlife. A copy of the reporting form and a topographic map clearly marked with the location where the individuals were observed should also be provided to the Service.

ES27. The applicant shall comply with all of the Conditions of Approval contained within the Incidental Take Permit (2081-2015-025-03 Crossroads Project) issued by the California Department of Fish and Wildlife dated January 21, 2016 (see Appendix D).

Entitlements

Z1. The project is subject to joint design review by the City of Santa Rosa and the County of Sonoma.

Z2. Comply with all stipulations set forth in in Santa Rosa City Council Resolution No. 27696, granting the Utility Certificate. (Appendix G)

Geotechnical


Noise

N1. Limit significant noise-generating construction activities, including truck traffic coming to and from the site for any purpose, to daytime, Monday through Saturday, non-holiday hours (7:00 AM to 6:00 PM).

N2. Properly muffle and maintain all construction equipment powered by internal combustion engines.

N3. Prohibit unnecessary idling of internal combustion engines by limiting idling to 5 minutes, per California State idling restrictions.

N4. Locate all stationary noise-generating construction equipment, such as air compressors, as far as practical from existing nearby residences and other noise-sensitive land uses. Acoustically shield such equipment by
using piles of aggregate, project trailers, other non-noise generating equipment, or with temporary portable noise barriers.

N5. Select quiet construction equipment, particularly air compressors, whenever possible. Fit motorized equipment with proper mufflers in good working order.

N6. Designate a "construction noise disturbance coordinator" to be responsible for responding to any local complaints about construction noise. The disturbance coordinator would determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and would require that reasonable measures to correct the problem be implemented. Conspicuously post a telephone number for the disturbance coordinator at the construction site and include it in the notice sent to neighbors regarding the construction schedule. (The project sponsor should be responsible for designating a construction noise disturbance coordinator and posting the phone number and providing construction schedule notices).

Sidewalks

S1. Existing pedestrian sidewalks and crosswalks shall not be obstructed during construction by temporary fences, soil, construction debris or any other dangerous obstruction.

Storm Water

SW1. The project is subject to the National Pollutant Discharge Elimination System (NPDES) requirements as set by the Regional Water Quality Control Board (RWQCB). Obtain coverage under the state Water Resource Control Board’s General Construction Permit (General Permit) and submit documentation of such to the Grading & Storm Water Section of the Sonoma County Permit and Resource Management Department prior to issuance of any grading permit.

SW2. A drainage report for the proposed project shall be prepared by a civil engineer, registered in the State of California, be submitted with the grading and/or building permit application, and be subject to review and approval by the Grading & Storm Water Section of the Permit and Resource Management Department (PRMD). The drainage report shall include, at a minimum, a project narrative, on- and off-site hydrology maps, hydrologic calculations, hydraulic calculations, pre- and post-development analysis for all existing and proposed drainage facilities. The drainage report shall abide by and contain all applicable items in the Drainage Report Required Contents (DRN-006) handout.

SW3. Drainage improvements shall be designed by a civil engineer, registered in the State of California, and in accordance with the Sonoma County Water Agency Flood Control Design Criteria. Drainage improvements shall be shown on the grading/site plans and be submitted to the Grading & Storm Water Section of the PRMD for review and approval. Drainage improvements shall maintain off-site natural drainage patterns, limit post development storm water levels and pollutant discharges in compliance with the PRMD’s best management practices guide, and abide by the standards and provisions of Chapters 11 & 11A of the Sonoma County Code and all other relevant laws and regulations. Drainage improvements shall not adversely affect adjacent properties or drainage systems.

SW4. The project is subject to the Standard urban Storm Water Mitigation Plan (SUSMP) guidelines. Measures to mitigate the project impacts to the quality of post-construction storm water discharges from the site shall be incorporated into the drainage design of the project. A final SUSMP shall be submitted with the grading and/or building permit application, and be subject to review and approval by the Grading & Storm Water Section of the PRMD prior to the issuance of any grading or building permits.

SW5. Polluted runoff from waste receptacles and dumpster areas shall not be allowed to drain directly to the storm drain system, waterways(s) or adjacent lands.

SW6. Appropriate Best Management Practices shall be implemented to effectively minimize and prevent polluted storm water discharges.

SW7. Storm drain easements shall be shown and noted on the grading/site plans.
SW8. Because some storm water runoff from the site will enter into the public storm drain which ultimately drains to Roseland Creek, storm drain inlets and catch basins shall be appropriately stenciled with the words “No Dumping. Drains to Creek”.

SW9. The project is subject to the applicable provisions of the Sonoma County Water Efficient Landscape Ordinance (WELO) adopted on December 15, 2009. A landscape plan check shall be required prior to commencing and construction on a landscape project subject to the provisions of the Sonoma County WELO. All project landscaping must be in conformance with the requirements of the Sonoma County WELO (Sonoma County Code of Ordinances, Chapter 7D3-7).

SW10. As part of the grading plans, the applicant shall include an erosion prevention/sediment control plan which clearly shows best management practices to be implemented, limits of disturbed areas, vegetated areas to be preserved, pertinent details, notes, and specifications to prevent damages and minimize adverse impacts to the environment. Tracking of soil or construction debris into the public right-of-way shall be prohibited. Runoff containing concrete waste or by-products shall not be allowed to drain to the storm drain system, waterway(s), or adjacent lands. The erosion prevention/sediment control plan shall abide by and contain all applicable items in the Grading Permit Required Application Contents (GRD-004) handout.

SW11. The project is located within the Flood Prone Urban Area (FPUA). No fill shall be placed within the FPUA, unless an engineering analysis demonstrates that no adverse impact to drainage within the FPUA will result from the fill placement and related improvements.

Transportation/Traffic

TR1. Note on Improvement Plans: “New construction on the parcels associated with this approval is subject to payment of a development fee (Traffic Mitigation Fee) before issuance of any building permits, as required by Section 26, Article 98 of the Sonoma County Code.”

TR2. Project plans shall reflect conformance with Sonoma County Fire and Emergency Service Department’s Fire Safe Standards and the Santa Rosa Fire Department’s General Conditions applicable to this project.

TR3. The project must meet parking requirements laid out in Sonoma County Zoning Code Chapter 26 Article 86 unless an incentive is granted under 65915 to provide a portion of the required parking spaces on the Lia- na Drive extension, as shown on the site plan dated February 9, 2011.

TR4. The project requires bicycle parking be provided at a ratio of ten percent of the provided automobile parking, equally distributed throughout the development. Design Review plans shall indicate the locations and sizes of bicycle parking areas.

TR5. The project applicant shall coordinate with the School District and the Department of Transportation and Public Works and construct a sidewalk along the development’s Burbank Avenue frontage to connect to the County’s asphalt pathway which will extend north to the new school (Roseland Creek Elementary School) and south to the existing improved pedestrian crosswalk at Hearn Avenue.

Valley Oak Habitat

The property is within the Valley Oak Habitat Combining District (VOH), and all grading and development of the site is subject to the Sonoma County Tree Protection Ordinance. The projects grading and landscape plans shall detail all tree protection implementation measures. For preserved trees:

VO1. Plastic or chain link tree protection fencing should be installed at the driplines of trees to be preserved, or the outer edge of the dripline of groups of trees to be preserved.

VO2. Trees to be preserved shall be clearly marked prior to demolition or site grading.

VO3. A pre-construction meeting with the tree service to perform pruning and the project arborist will be required to specify the extent and specifics of pruning. Pruning should be the minimum necessary for hazard reduction or necessary access, structural training and crown restoration. It should be done by trained, qualified tree workers according to ISA Pruning Guidelines.
VO4. If grading or trenching for utilities or draining must occur within the driplines of protected trees, the project arborist should be contacted to provide monitoring during the work. Roots 2” and larger shall be preserved where they occur at a depth that lines may be installed under them. If any roots larger than 1” are encountered that cannot be preserved, they should be cut cleanly across the face of the root with a sharp saw.

VO5. Wood chip mulch generated from pruning should be spread under protected trees to serve as a permanent top dressing and mulch. It should be augmented to provide a 4” layer of mulch within the driplines of all trees to be preserved.

VO6. No parking, storage of materials, or other construction activity is to occur within driplines of trees to be preserved.

Removal of native trees requires compensatory mitigation as specified in the Ordinance:

VO7. Required tree replacement shall be as set forth in the Tree Removal Plan prepared by Carlenzoli and Associates, as modified by Design Review Committee approvals. Tree value assessment and replacement shall be consistent with the Arboreal Value Chart in the Sonoma County Tree Protection and Replacement Ordinance (Ord. #4014). Any combination of 15 gallon and 24” box trees may be used at the ratio of 1 arboreal value point = 2 – 15 gallon trees and 2 points = 1 – 24” box tree.

Water Quality

WQ1. Prior to commencement of work, the applicant must obtain a Section 401 water quality certification from the San Francisco Bay Regional Water Quality Control Board (RWQCB). The applicant shall submit a copy of the certification to the Army Corps of Engineers prior to commencement of any work.

Waste Water

WW1. Prior to and separate from the start of Improvement Plan review, the applicant shall have Improvement Plans for Sanitary Sewer design prepared by a licensed civil engineer, registered in the State of California, and designed in accordance with Sonoma County Water Agency Design and Construction Standards for Sanitation Facilities and/or City of Santa Rosa Standards, as applicable. The applicant shall submit four (4) sets of Improvement Plans for sanitary sewer design, (blueline or blackline, 24 inch by 36 inch in size), one (1) copy of the Conditions of Approval and Plan Checking fees, to the Sanitation Section of the PRMD for those sections within County review jurisdiction. The sanitary sewer design shall include “plan and profile” diagrams of the proposed sewer, in addition to all other requirements of the sewer design standards.
FINDING: [58.40(g)]

X Finding of No Significant Impact
(The project will not result in a significant impact on the quality of the human environment)

Finding of Significant Impact
(The project may significantly affect the quality of the human environment)

Preparer Signature: _______________  5-4-2015
Name/Title/Agency: Vern Miller, Principal, AEM Consulting LLC

RE Approving Official Signature: _______________  5-6-2016
Name/Title/Agency: Clare Hartman, Deputy Director of Planning and Economic Development
Statement of Purpose and Need for the Proposal: [40 CFR 1508.9(b)]

Regional Outlook

The San Francisco Bay Area (Bay Area) region has a population of approximately 7.2 million people. The Bay Area alone, if it were a separate nation, would be the world’s 21st-largest economy. The region’s population is projected to swell to 9 million people by 2040. About one-fifth of the Bay Area’s total population lives in areas with large numbers of low-income and minority populations.\(^1\)

The Association of Bay Area Governments (ABAG), in conjunction with the Metropolitan Transportation Commission (MTC) and representatives from each of the nine Bay Area counties and cities, has drafted a Sustainable Communities Strategy named “Plan Bay Area”. Plan Bay Area was developed to comply with California Senate Bill SB 375, “The California Sustainable Communities and Climate Protection Act of 2008” which requires each region of the state, including the Bay Area, to reduce greenhouse gas emissions from passenger vehicles. The law requires that the Sustainable Communities Strategy promote compact, mixed-use commercial and residential development. To meet the goals of SB 375, Plan Bay Area directs more future development to areas that are or will be walkable and bike-able and close to public transit, jobs, schools, parks, recreation and other amenities. The law synchronizes the regional housing needs allocation process with the regional transportation planning process and streamlines the California Environmental Quality Act (CEQA) process for housing and mixed-use projects that are consistent with the Sustainable Communities Strategy and are in close proximity to public transportation. Local governments have identified Priority Development Areas where new development can support the day-to-day needs of residents and workers in a pedestrian-friendly environment served by transit. The concept of Priority Development Areas was established by ABAG and MTC to address housing needs in infill communities and advance focused employment growth.\(^1\)

By 2040 the Bay Area’s population is projected to increase by 2.1 million residents, an increase of 30%, or roughly 1% per year. The number of jobs is expected to grow by 1.1 million between 2010 and 2040, an increase of 33%, which is a slower rate of job growth than in previous ABAG forecasts. During this same time period, the number of households is expected to increase by 700,000 (27%), and the number of housing units is expected to increase by 660,000 (24%). Single-family homes represented the majority of housing production in recent decades, but recent trends suggest that cities once again are becoming centers of population growth. Construction of multifamily housing in urban locations in the Bay Area increased from an average of 35% of total housing construction in the 1990s to nearly 50% in the 2000s. In 2010 it represented 65% of all housing construction. Demand for multifamily housing is projected to increase in developed areas near transit, shops and services.\(^1\)

The economy in the Bay Area is still recovering from the recession of 2007-2009, which has resulted in uneven job growth throughout the region, increased income disparity, and high foreclosure rates in some areas. At the same time, housing costs have risen sharply for renters and home buyers in cities such as Sunnyvale that are located within the region’s major employment centers, such as the Silicon Valley. Bay Area communities face these challenges at a time when there are fewer public resources available than in past decades for investments in infrastructure, public transit, affordable housing, schools and parks.\(^1\)

Local Perspective

The Association of Bay Area Governments (ABAG) projects that the Santa Rosa population will continue to grow through 2040, although at a slower pace than in previous decades. The ABAG projections, prepared in 2013, call for population increases of 10 percent for the next three decades, bringing the city’s population from approximately 170,000 in 2013 to an estimated 221,800 by 2040. The number of households is expected to grow steadily by just under 10 percent per decade through 2040, increasing from about 63,600 in 2010 to an approximately 80,600 in 2040.\(^2\)
According to ABAG’s Regional Housing Needs Allocation (RHNA) 2014 to 2022, the City of Santa Rosa needs up to 4,662 new units by 2022, as shown on the table below, in order to meet its share of the regional housing need projected by ABAG.\(^3\)\(^9\)

<table>
<thead>
<tr>
<th></th>
<th>Very low, &lt; 50%</th>
<th>Low, &lt; 80%</th>
<th>Moderate, &lt; 120%</th>
<th>Above Moderate</th>
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<td>29</td>
<td>31</td>
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<tr>
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<tr>
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<td>484</td>
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<tr>
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<td>160</td>
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<td><strong>Total:</strong></td>
<td><strong>1,818</strong></td>
<td><strong>1,094</strong></td>
<td><strong>1,355</strong></td>
<td><strong>4,177</strong></td>
<td><strong>8,444</strong></td>
</tr>
</tbody>
</table>

The proposed project will contribute 78 units toward Santa Rosa’s RHNA for very low and low income units.
**Description of the Proposal:** Include all contemplated actions which logically are either geographically or functionally a composite part of the project, regardless of the source of funding. [24 CFR 58.32, 40 CFR 1508.25]

Burbank Housing Corporation (Burbank) has proposed the development of a new apartment community in unincorporated Sonoma County, California at 1990-2030 Burbank Avenue. The new community will include 79 units in a combination of one, two, and three bedroom units. A total of 78 units will provide long term affordable housing for very low- and low-income Sonoma County households. The development includes a total of 136 parking spaces, indoor and outdoor community meeting areas, laundry and outdoor play areas.

![Figure 1 Conceptual Site Plan](image)

The design of the buildings includes twenty one- and two-story structures housing the apartment units and a one-story Community Building. The unit mix will be 26 one-bedroom units, 24 two-bedroom units, and 29 three-bedroom units, or a total of 79. Parking will consist of 82 spaces of on-site standard spaces, 21 on-site compact parking and 33 on-street parking spaces, or a total of 136 parking spaces. The project plans include the construction of the Liana Drive extension to connect Burbank Avenue to the truncated street Liana Drive adjacent to the property.

The total project cost is estimated to be $38,518,488, which includes the following Federal HUD funds:

- $1,095,744 in Home Investment Partnerships Program (HOME Program) funds awarded by the City of Santa Rosa;
- $1,219,620 in Home Investment Partnerships Program (HOME Program) funds awarded by the Sonoma County Community Development Commission (SCCDC);
- $644,693 in Community Development Block Grants (CDBG) awarded by the SCCDC;
- And 53 Project-Based Section 8 Vouchers awarded by the Sonoma County Housing Authority.

There has been a total of $2,960,057 in HUD funds plus 53 Vouchers awarded to this project to date.
Figure 2 Conceptual Elevations – Building Type “A”
Existing Conditions and Trends: Describe the existing conditions of the project area and its surroundings, and trends likely to continue in the absence of the project. [24 CFR 58.40(a)]

Physical Setting/ Existing Conditions
The site is located in the Coast Ranges Geomorphic Province of California. This province is characterized by northwest trending topographic and geologic features, and includes many separate ranges, coalescing mountain masses and several major structural valleys. The province is bounded on the east by the Great Valley and on the west by the Pacific Ocean. It extends north into Oregon and south to the Transverse Ranges in Ventura County.

Regional Setting
The City of Santa Rosa is located entirely within Sonoma County, California. Sonoma County is bounded on the north by Mendocino County, on the west by the Pacific Ocean, on the south by Marin County, and on the east by Lake and Napa counties and covers approximately 1,576 square miles of land. The County’s population density in 2006 was 304.5 residents per square mile, above the overall California population density of 239.5 people per square mile. Sonoma County contains a variety of land uses, including residential, commercial, institutional, and agricultural, as well as forestry and fishing-related industries.
Local Setting

The City of Santa Rosa is located within the central portion of Sonoma County. The Santa Rosa city limits encompass 41.67 square miles. Santa Rosa’s Urban Growth Boundary (UGB) area covers approximately 45 square miles (29,100 acres) and contains incorporated land and unincorporated land that will eventually be annexed and served by the City services. Santa Rosa voters approved a five-year UGB in 1990, and a 20-year UGB measure in 1996, assuring that the current UGB will not be significantly changed at least until 2016.

The eastern portion of the City of Santa Rosa is located in the foothills of the Sonoma Mountains (part of the inner Coast Range), and the western portion is on the Santa Rosa Plain (also called the Llano de Santa Rosa). Santa Rosa is bisected by Santa Rosa Creek, which originates in the foothills of the Sonoma Mountains, and runs from east to west through the city, across the Santa Rosa Plain, and into the Laguna de Santa Rosa. Other creeks, including Piner Creek, Brush Creek, and Matanzas Creek, run through or near the city limits and are tributaries of Santa Rosa Creek.

Site Specific Characteristics

The project site is located in the Southwest quadrant of the City of Santa Rosa, in unincorporated Sonoma County. The area immediately surrounding the project site is comprised of rural residential, single family homes and vacant parcels.

The project site is composed of two adjacent parcels (APNs 125-421-018 and 125-421-019) of vacant land, and identified as address 1990-2030 Burbank Avenue. The site itself is relatively flat and lies approximately 139 feet above mean sea level. There are no roads on the site. There are no creeks or waterways on the site. The parcels are currently vacant and have never been developed.

Soils mapped for this location are of the Clear Lake series. Clear Lake soils are found on plains and flat basins and are poorly drained clays. Annual and perennial grasses are the chief vegetation supported by Clear Lake soils, and parcels with these soils have been used primarily for growing fodder.
Project Location

Map 1 Region

Map 2 Detail
Project Location

Map 3 Assessor’s Parcel Map

Photo 1 Aerial View  ** Courtesy BING Maps
### Historic Preservation

#### [36 CFR 800]

<table>
<thead>
<tr>
<th>Compliance Not Invoked</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effects of their undertakings on historic properties. The Section 106 process seeks to accommodate historic preservation concerns with the needs of federal undertakings through consultation among the agency official and other interested parties, beginning at the early stages of project planning. The goal of consultation is to identify historic properties potentially affected by the undertaking, assess its effects and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. To evaluate the significance of an historical resource and its integrity, the ability of a property to convey that significance, a building is evaluated according to the National Register.</td>
</tr>
</tbody>
</table>

The proposed project is for Burbank Housing Corporation to develop 79 units of multi-family affordable housing on two parcels that total approximately 4.85 acres (APNs 125-421-018 and 125-421-019) located at 1990-2030 Burbank Avenue in unincorporated Sonoma County, California. The design of the buildings includes twenty one- and two-story structures housing the apartment units and a one-story Community Building. The unit mix will be 26 one-bedroom units, 24 two-bedroom units, and 29 3-bedroom units, or a total of 79. Parking will consist of 82 spaces of on-site standard spaces, 21 on-site compact parking and 33 on-street parking spaces, or a total of 136 parking spaces. The project plans include the construction of the Liana Drive extension to connect Burbank Avenue to the truncated street Liana Drive adjacent to the property.

On April 1, 2002, a Cultural Resources Survey was performed by Tom Origer & Associates that included development of the project. They concluded that none of the buildings adjacent to the parcels proposed for development appear eligible for inclusion on the National Register of Historic Places or the California Register of Historical Resources as separate properties. In addition, none of the buildings on properties adjoining those parcels to be developed by Burbank Housing Development Corporation appear eligible for listing on either of the registers listed above. These buildings were examined in compliance with Section 106 of the National Environmental Policy Act (36CFR800). They found that no further research was warranted or recommended.

A records search from the Northwest Information Center found no information regarding pre-historic or cultural resources on the site. Native American Tribes were contacted but have not responded or expressed any interest in the project.

In September, 2010, AEM Consulting prepared a Historic & Cultural Resources
Evaluation for the project and concluded that none of the adjacent properties are historic buildings, or officially designated as landmarks nor are they listed on the National Register of Historic Places. None of the structures in the Area of Potential Effects appear to be eligible for listing in the national Register of Historic Places.

In a letter to the State Historic Preservation Officer dated September 9, 2010, the Agency Official concurred with previous findings and determined that no National Register listed or eligible historic properties were identified in the Area of Potential Effects and therefore the undertaking will not have an adverse effect on historic properties. The letter was received by the Office of Historic Preservation on September 13, 2010.

On October 12, 2010, the State Office of Historic Preservation did not object to the finding of no effect on historic properties.

| Source Document List: (5) (6) (7) (8) (Appendix A) |

**Floodplain Management**  
[24 CFR 55, Executive Order 11988]

| Compliance not invoked  
The project is not located in a Flood Zone. The area is a Flood Hazard Area Designation X: Areas of minimal flooding (Non-printed Panel). FIRM Map Number 06097C0736 E.  
Source Document List: (9) (Appendix B) |

**Wetlands Protection**  
[Executive Order 11990]

| Compliance not invoked  
A small vernal pool and four small non-jurisdictional seasonal wetlands were found at the site. Formal consultation with the U.S. Army Corps of Engineers for jurisdictional delineation has been completed. Wetland creation credits were purchased for the 0.05 acres of wetland found at the property.  
Consultation is complete; no further actions are necessary. A Clean Water permit is required.  
*The 8-Step Process*  
A Public Notice concerning the project was published in the Press Democrat, the local general circulation newspaper for Sonoma County, serving Santa Rosa, on July 18, 2011. A listed of interested public agency officials and adjacent properties was developed. The Notice was mailed directly to them. Finally, a copy of the project plans was made available for public inspection at the Sonoma County Community Development Commission. A copy of the notice is included herein.  
The 15-day comment period expired on August 2, 2011. There were no objections to the use of Federal funds for projects in the wetland. See Public Notice and Proof of Publication (Appendix C). A Findings and Public Documentation is enclosed in Appendix C, which completes the 8-Step decision making process for the project.  
<table>
<thead>
<tr>
<th>Source Document</th>
<th>Compliance</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>C) Coastal Zone Management Act [Sections 307(c),(d)]</td>
<td>Compliance not invoked</td>
<td>The project activities do not involve improvements to real property in the Coastal Zone. Source Document List: (20)</td>
</tr>
<tr>
<td>C) Sole Source Aquifers [40 CFR 149]</td>
<td>Compliance not invoked</td>
<td>The project activities do not affect a sole source aquifer, as there are no aquifers subject to a MOU between EPA and HUD in Sonoma County. Source Document List: (21)</td>
</tr>
</tbody>
</table>
| C) Endangered Species Act [50 CFR 402] | Compliance invoked | The property is located within the Santa Rosa Plain Conservation Strategy area, and within 2,200 feet of a known California tiger salamander breeding location. Habitat at the site is suitable to support the endangered California tiger salamander (*Ambystoma californiense*) as well as three endangered plant species: Sebastopol meadowfoam (*Limnanthes vinculans*), Sonoma sunshine (*Blennosperma bakeri*), and Burke’s goldfields (*Lasthenia burkei*).  
Formal consultation with the U.S. Fish & Wildlife Service under Section 7 of the Endangered Species Act has been completed. It is the Service’s biological opinion that the proposed Burbank Housing Project is not likely to jeopardize the continued existence of the California tiger salamander and the three listed plants. This determination was based on the following: (1) habitat losses would be limited to upland and aquatic non-breeding habitat for the California tiger salamander, (2) no California tiger salamander breeding ponds will be directly lost within the action area, (3) only 0.04 acre (0.016 hectare) of seasonal wetland habitat for the three listed plants would be permanently lost: (4) numerous conservation measures would be implemented to minimize the adverse effects on individual California tiger salamanders, and/or (5) preservation and management of 5.6 acres (2.31 hectares) of upland and seasonal wetland habitat would offset the permanent loss of habitat for the California tiger salamander and 0.1 acres of seasonal wetland habitat to offset the loss of wetlands and habitat for three listed plants as a result of the proposed action. Critical habitat has not been proposed or designated for the Sonoma County Distinct Population Segment of the California tiger salamander and the three listed plants in the Santa Rosa Plain; therefore none will be adversely modified or destroyed. Consultation is complete. Terms and conditions set forth by the US Fish & Wildlife in the biological opinion will be included as conditions of approval, to limit take of individuals.  
On January 21, 2016, the project received an Incidental Take Permit for the project, issued by the California Department of Fish and Wildlife for the California tiger salamander. The Permit authorizes incidental take of Covered Species (California tiger salamander) during construction of the Crossroads pro- |
| **Wild and Scenic Rivers Act**  
[Sections 7 (b), (c)] | Compliance not invoked  
No wild and scenic rivers are located within the Sonoma County.  
Source Document List: (28) |
|---|---|
| **Air Quality**  
[Clean Air Act, Sections 176 (c) and (d), and 40 CFR 6, 51, 93] | Compliance not invoked  
On June 2, 2010, the Bay Area Air Quality Management District (BAAQMD), the Bay Area’s air pollution regulator, unanimously adopted stringent, new air quality thresholds under the California Environmental Quality Act (CEQA). The Thresholds, which are part of BAAQMD’s new Air Quality Guidelines, set a precedent for air districts around the state and across the country, include new thresholds of significance aimed at limiting emissions of criteria air pollutants, greenhouse gases (GHGs), toxic air contaminants (TACs), fine particulate matter (PM$_{2.5}$) and odors. For these reasons, the GHG and local community risks and hazards (i.e., TACs and PM$_{2.5}$) thresholds are among the most restrictive of California’s 35 air districts – as well as among the most stringent in the nation.  
*Initial conservative screening*  
For purposes of risk and hazards for new sources and receptors for individual project, the zone of influence is a 1,000-foot radius from property line of the source or receptor. This new threshold is effective May 1, 2011. In consideration of sources of air pollution near the project site, there are no major roadways (defined by HUD as having at least 10,000 average annual daily traffic) that lie inside the zone of influence. There are no stationary sources as identified by the BAAQMD that would have a significant effect on the project within 1,000 feet of the project site. Therefore the residents are not subject to significant adverse effects and the project is not subject to further Air Quality screening.  
This project does not require further review for compliance with federal air quality standards.  
Source Document List: (10) (29) (30) (31) |
| **Farmland Protection Policy Act**  
[7 CFR 658] | Compliance not invoked  
Prime farmland is land best suited for producing food, forage, fiber, and oilseed crops and also available for these uses (the land could be cropland, pastureland, rangeland, forest land, or other land but not urban built-up land or water). This project is located in a suburban area. The project will not affect farmlands. No federally designated Farmlands have been identified within the project.  
Environmental Justice
[Executive Order 12898]

Compliance not invoked
The project will not raise environmental justice issues and has no potential for new or continued disproportionately high and adverse human health and environmental effects on minority or low-income populations. The project is in fact adding housing for the affected populations. The project is suitable for its proposed use.

Source Document List: (10)

HUD Environmental Standards
Noise Abatement and Control
[24 CFR 51 B]

Compliance not invoked
HUD environmental noise regulations are set forth in 24 CFR Part 51B (Code of Federal Regulations). The following noise standards for new housing construction would be applicable to this project.

- 65 DNL or less – acceptable.
- Exceeding 65 DNL but not exceeding 75 DNL – normally unacceptable.
- Exceeding 75 DNL – unacceptable.

HUD requires consideration of all noise sources which may adversely impact noise sensitive areas such as housing. In this regard, the three principal sources of noise which may be properly considered are Airports within 15 miles, Railroads within 3,000 feet and major Roadways within 1,000 feet of the project site.

Airports
There are no major airports within 15 miles of the project site. Two minor regional airports are located with 15 miles of the site: The Charles M. Schultz Sonoma County Airport is located 7.59 miles to the north; and Petaluma Municipal Airport is located 13.11 miles to the south. No noise contours (CNEL) of the airports extend to the site. There are no noise impacts on the proposed project from airport noise sources from any major airports.

Railroads
The Northwest Pacific Railroad is located approximately 2,838 feet to the east of the project site and shielded by numerous structures and roads. Freight service operated on the corridor from points north to Marin County and then eastward until 2001. Up to 1997, North Coast Railroad Authority served customers as far north as Arcata. In 1997, the portion of the railroad north of Willits became inactive, leaving only the southern segment of the corridor operational until service was halted by the Federal Railroad Authority (FRA) in 2001. As of this writing, the railroad is inactive and thus can have no noise impacts. Attempts to fund a freight and commuter rail service on the existing tracks have passed voter approval, and the Sonoma-Marin Area Rail Transit (SMART)
was conceived to deliver this service using the Northwest Pacific Railroad (NWP) tracks. Rail service is planned to be fully operational by December 2016. Due to distance and physical barriers, future transit use along the Northwestern Pacific Railroad Corridor within the Southwest Plan Area may affect ambient noise at the project site. This impact is considered less-than-significant.

**Roadways**

The subject site is located on Burbank Avenue. The nearest freeways to closest to the project are Highway 12 and Highway 101, both approximately one mile from the project. There are no major or arterial roadways within 1,000 feet of the project site.

The existing noise environment at the site is predominantly the result of vehicular noise from adjacent roadways. The existing noise environment at the project is 60 dBA, which is considered “acceptable” under HUD guidelines. No further review of noise impacts is necessary.

Source Document List: (10) (30) (32) (33) (34) (35)

<table>
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<tr>
<th>Toxic or Hazardous Substances and Radioactive Materials</th>
<th>Compliance not invoked</th>
</tr>
</thead>
<tbody>
<tr>
<td>[HUD Notice 79-33]</td>
<td></td>
</tr>
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</table>

A Phase I Environmental Site Assessment was prepared for the site by Harris & Lee Environmental Sciences on February 26, 2002. The purpose of the report was to provide information as to any recognized environmental conditions at the property or surrounding properties in accordance with the American Society for Testing and Materials (ASTM) guidelines. Recognized environmental conditions are defined as: “the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws.”

There were no recognized environmental conditions at the subject property.

On September 23, 2010, Harris & Lee performed an updated All Appropriate Inquiry - Phase I Environmental Site Assessment for the project to identify any current recognized environmental conditions. As part of the inquiry, a records search was performed through Environmental Data Resources, Inc. on September 3, 2010. The subject property was not listed on any of the databases searched. However, one Recognized Environmental Condition relative to the Subject Site was identified - New Roseland Area Elementary School at 2611 Dutton Meadow located approximately 972 feet north-northwest of the Subject Site. The potential contaminants are heavy metals and polynuclear aromatic hydrocarbons. Surface sediments and surface water are being investigated, however the contamination is not defined and the investigation is not complete.

Some of the surrounding properties in the search radius appeared on various
databases and are discussed below.

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. A review of the CERCLIS list, as provided by EDR, and dated 01/29/2010 reveals that there is 1 CERCLIS site within approximately 0.5 mile of the target property. The site is West Avenue Mercury, 1363 West Avenue, at a distance of 2,234 feet to the northeast with a status of “removal only”.

SLIC: This database is considered a California State ASTM supplemental database. SLIC stands for Spills, Leaks, Investigations and Cleanups database. The SLIC program is designed to protect and restore water quality from spills, leaks, and similar discharges. The SLIC program has several components at the North Coast Regional Water Quality Control Board: (1) complaint response, (2) non-permitted discharge investigations, (3) site cleanups under the oversight of the Water Board, (4) site cleanups pursuant to methods analogous to procedures in the Resource Conservation and Recovery Act, and (5) cleanups performed by redevelopment agencies. In some cases, the Regional Water Board oversight costs are recovered from responsible parties. A review of the SLIC list, as provided by EDR, and dated 02/05/2010 reveals that there is 2 SLIC sites within approximately 0.5 mile of the target property. They are both Dutton & Associates at 1850 and 1800 Burbank Avenue, approximately 500 feet to the northwest with a status of “case closed”.

ENVIROSTOR: The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites. A review of the ENVIROSTOR list, as provided by EDR, and dated 08/09/2010 reveals that there are 12 ENVIROSTOR sites within approximately 1 mile of the target property.

Most of the sites listed are not considered likely environmental risks to the subject property due to one or more of the following factors: status of case, distance from subject property, groundwater flow relative to subject property
or the well-defined nature of contaminant plume. Most of the sites listed above are cross gradient. The sites with potential for environmental impact to the subject property are discussed below.

New Roseland Area Elementary School at 2611 Dutton Meadow is the closest concern to the subject site located 972 feet north-northwest. It is listed in the State of California databases as Roseland Creek at Burbank Avenue. The Global ID is SL0609756518. The potential contaminants are heavy metals and polynuclear aromatic hydrocarbons. This contamination was discovered in Roseland Creek during a Phase II investigation prepared as part of the development of a nearby school. The contamination is suspected to be through storm water runoff. Surface sediments and surface water are being investigated, however the contamination is not defined and the investigation is not complete. Presently this constitutes a Recognized Environmental Condition relative to the subject property.

The McMinn Avenue State Superfund Area is listed using 841 McMinn Ave as its address. It is comprised of many separate active sites and Responsible Parties. Determinations of Recognized Environmental Conditions are addressed through the individual sites that constituted the McMinn Avenue State Superfund Area. The Global ID recorded in the State of California Geotracker database is T0609793565. This study area is also included in the Envirostor database administered by the Department of Toxic Substances Control. The following is an extract from the Envirostor database that provides a history and scope of the contamination.

“Between 1981 and 1985, the Regional Water Quality Control Board, North Coast Region (RWQCB) and the Sonoma County Public Health Department (SCHPHD) sampled private water supply wells in the Roseland Area, which is located in and adjacent to southwest Santa Rosa. This sampling was initially prompted by residents reporting the taste and odor of gasoline and diesel in water from their wells. Some of the sampled wells were found to be contaminated with gasoline, diesel, and chlorinated solvents.

“The Department of Health Services, Toxic Substances Control Division (now the Department of Toxic Substances Control [DTSC]) began investigations in 1986 using State funding and State contractors because little was known about the nature and extent of contamination and the sources of contamination were not known. The Preliminary Site Assessment and Investigation (PSAI) Workplan, the first investigation workplan that was prepared using State funds, designated the area within a 2000-foot radius around the intersection of McMinn Avenue and Sebastopol Road as the Local Study Area in order to provide a focus for the investigation. One of the private water supply wells, in which gasoline and diesel was initially discovered, was located near this intersection. During the PSAI, 38 private water supply wells were sampled, existing well sampling data was assembled, and facilities with underground storage tanks and facilities which used, stored, or disposed hazardous materials were identified. DTSC conducted additional investigation activities from 1987 through 1989 that included soil gas sam-
pling and installing and sampling 12 groundwater monitoring wells. After 1989, DTSC conducted only limited work using State funds, which included sampling and closing some of the 12 monitoring wells.

“RWQCB and SCPHD were overseeing some investigation and cleanup activities on properties with underground storage tanks when DTSC began its State-funded investigation activities in 1986. The nature, extent, and sources of contamination were better defined as more investigations were conducted and the Local Study Area designation was no longer used. In 1994, DTSC transferred responsibility to RWQCB as lead agency for the McMinn Avenue Site. DTSC had requested that RWQCB assume this responsibility because much of the contamination was petroleum hydrocarbons, which RWQCB has more extensive regulatory authority to address. RWQCB was providing oversight of investigation and cleanup activities at more than 30 properties at the time DTSC transferred responsibility as lead agency. Most of these properties were in the area along Sebastopol Road between Stony Point Road and Dutton Avenue. The McMinn Avenue Site is no longer being addressed by DTSC as a State “Superfund” site, and is being addressed through individual property investigations and cleanup activities that are being overseen by RWQCB. More information on these individual sites can be found on the State Water Resources Control Board’s GeoTracker database (http://geotracker.swrcb.ca.gov/) and the individual property files can be reviewed at RWQCB’s Santa Rosa office.”

The subject site is approximately 3,700 feet from the intersection of McMinn Ave and Sebastopol Road and is outside the original study area defined by a 2,000 foot radius around this street intersection. Therefore the McMinn Avenue State Superfund Area is not a Recognized Environmental Condition relative to the subject property and is unlikely to be an environmental concern.

Redwood Chemical at 2450 Stony Point Road is located approximately 2,714 southwest of the subject site. The Global ID is 49280008. Reported contaminants from 1930 to 1967 are muriatic acid and sodium hydroxide. From 1963 to 1989 contaminants used were sodium hypochlorite, sodium bisulfate, chlorine, and ammonium. All of these materials should evaporate and leach away with storm water. In 2008 the Department of Toxic Substances Control issued a report stating that the site does not pose an immediate threat or require removal. This site is substantially down slope and down gradient from the subject site and does not pose an environmental liability.

Therefore, there is only one Recognized Environmental Condition relative to the subject site – New Roseland Area Elementary School at 2611 Dutton Meadow located approximately 972 feet north-northwest of the Subject Site.

**Conclusion**

In the course of performing the All Appropriate Inquiry- Phase 1 Environmental Site Assessment investigation, evidence of one Recognized Environmental Condition was identified. The Recognized Environmental Condition is New Roseland Area Elementary School at 2611 Dutton Meadow located approxi-
mately 972 feet north-northwest of the subject site. The potential contaminants are heavy metals and Polynuclear Aromatic Hydrocarbons. Surface sediments and surface water are being investigated, however the contamination is not defined and the investigation is not complete. Harris & Lee Environmental Sciences, LLC recommends that no further environmental investigation is warranted on the subject property given the findings of their report.

Update

On July 15, 2011, Environmental Data Resources, Inc. performed a records search into the current conditions of the property and standard search radius around the property. The project site was not listed on any of the databases searched by EDR. The updated records search did identify records listed below which may have differed slightly from the search performed in September 2010.

A review of the ENVIRONMENTAL LIST, as provided by EDR, and dated 06/15/2011 has revealed that there are 14 ENVIRONMENTAL LIST sites within approximately 1 mile of the target property – two more than reported earlier.

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency. A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 10 Notify 65 sites within approximately 1 mile of the target property. None of these sites can affect the property because the site will be served by City water services.

In sum, there are no sources of contamination or toxics that can affect the site that are of concern or warrant further analysis. The site is suitable for its proposed use.

Phase I Update

Harris and Lee Environmental Sciences, LLC performed an All Appropriate Inquiry – Phase I Environmental Site Assessment for the subject property in July 2015. The assessment revealed no evidence of recognized environmental conditions in connection with the property. Harris and Lee Environmental Sciences, LLC recommends that no further environmental investigation is warranted on the subject property given the findings of the Phase I Environmental Site Assessment.

Regulatory Databases Update

AEM Consulting reviewed the Toxic and Hazardous Materials Database (EnviroStor) on March 15, 2016. EnviroStor is a website available through California’s Department of Toxic Substances Control. EnviroStor combines Federal Superfund, State Response, Voluntary Cleanup, School Cleanup, Evaluation, Tiered Permit and Corrective action cases into a searchable map-style interface.

There is one open case within 1,000 feet of the site, Roseland University Prep Charter School at 1777 West Avenue. The site is listed as “No Further Action”
status. The case is in regards to buildings containing lead-based paint and asbestos-containing building materials that are slated for demolition in an effort to redevelop the site. The hazardous materials to be disposed of off-site pose no hazard or ongoing threat to future residents of the proposal.

The State of California Water Resources Control Board offers a similar web-based tool called GeoTracker that allows the user to search their cases of Leaking Underground Storage Tanks, Spills, Leaks, Investigation and Cleanup (SLIC), Deed Restrictions, Groundwater and other cleanup cases. There are no open or closed cases within 1,000 of the site.

The project will not introduce toxic, hazardous or radioactive materials to the neighborhood, nor does the project involve use of toxic chemicals or radioactive materials. Based on the prior and updated Phase I’s and EnviroStor Toxic Screening, AEM Consulting concludes, that the original findings remain valid and that no further environmental investigation is warranted on the subject property.

Source Document List: (10) (36) (37) (38) (39) (40) (41) (42) (Appendix F)

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The project will not be located near any sites known to contain toxic or radioactive materials, nor is the project located near explosive or thermal source hazards.</td>
<td></td>
</tr>
<tr>
<td>Source Document List: (10) (37) (43)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Airport Clear Zones and Accident Potential Zones [24 CFR 51 D]</th>
<th>Compliance not invoked</th>
</tr>
</thead>
<tbody>
<tr>
<td>The project site does not lie within an Airport Clear Zone or Accident Potential Zone. Project site is outside the Airport Clear Zone of the Sonoma County Airport, which lies approximately 7.59 miles north of the site.</td>
<td></td>
</tr>
<tr>
<td>Source Document List: (10) (32) (44)</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental Assessment Checklist

[Environmental Review Guide HUD CPD 782, 24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27]

Evaluate the significance of the effects of the proposal on the character, features and resources of the project area. Enter relevant base data and verifiable source documentation to support the finding. Then enter the appropriate impact code from the following list to make a finding of impact. Impact Codes: (1) – No impact anticipated; (2) – Potentially beneficial; (3) – Potentially adverse; (4) – Requires mitigation; (5) – Requires project modification. Note names, dates of contact, telephone numbers and page references. Attach additional materials as needed.

<table>
<thead>
<tr>
<th>Land Development Code</th>
<th>Source or Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conformance with Comprehensive Plans and Zoning 4</td>
<td>The subject properties are two large parcels, each approximately 2.4 acres in area; the parcels are contiguous with no clearly delineated property line visible. The County of Sonoma zoning for these parcels is RR-B6, which denotes rural residential usage with a 4-acre minimum. The project has achieved approval of the required zoning overlay to allow the density necessary for the project. The project requires joint...</td>
</tr>
</tbody>
</table>
| Compatibility and Urban Impact | 1 | The architecture for the project is influenced by some of the older surrounding rural residences blended with contemporary perspectives. The creation of Liana Drive extension along with the building setbacks aid the project to blend well with the existing rural residential neighborhood.

The project is suitable for its proposed use.

Source Document List: (10) (31) (45) (46) (47) (48) |

| Slope | 1 | The project site is relatively level, with a total difference in elevation of less than one foot, expressed over the whole site in the very gentle slope to the west and locally in a small number of shallow depressions.

Source Document List: (11) (49) |

| Erosion | 1 | The site is flat and has never been developed. Although no erosion hazards currently exist on the site, it is subject to soil erosion during construction. The potential for storm water pollution exists on any construction project. Developers, contractors and property owners are expected to prevent erosion and the release of sediment and other pollutants through Best Management Practices (BMPs). BMPs include scheduling construction activities, employing prevention measures and installing control devices. The goal is to keep pollutants out of storm drains, waterways and adjacent properties. Pollutants should be contained on-site until appropriate disposal is possible.

The project proponent will employ Best Management Practices to prevent any storm water pollution.

Source Document List: (10) (50) |

| Soil Suitability | 4 | On July 25, 2007 a Geotechnical Investigation was performed by PJC & Associates, Inc. A summary of their conclusions and recommendations follow. Implementation of the recommendations are included as conditions of approval for this project.

The site is located in the Coast Ranges Geomorphic Province of California. This province is characterized by northwest trending topographic and geologic features, and includes many separate ranges, coalescing mountain masses and several major structural Valleys. The province is bounded on the east by the Great Valley and on the west by the Pacific Ocean. It extends north into Oregon and south to the Transverse Ranges in Ventura County.

The site is located in the Santa Rosa Plain structural basin. The site is
mapped as being underlain by Quaternary alluvial fan deposits consisting chiefly of fine sands and silts. This classification was confirmed by subsurface exploration. However, more recent alluvial deposits were encountered consisting of silty and sandy clays at the surface of the site.

The site is located on nearly level ground in the Santa Rosa Plain. According to the United States Geological Survey (USGS) Santa Rosa, California, 7.5 Minute Quadrangle Map (topographic), the site is situated near an elevation of 120 feet above mean sea level (MSL). Regional drainage is provided by the Laguna de Santa Rosa and city maintained storm drainage systems. No creeks or seasonal drainage channels pass through the site. A drainage ditch was observed adjacent to Burbank Avenue. Site drainage generally consists of sheet flow and surface infiltration.

The subsurface conditions of the site were investigated by drilling 10 exploratory boreholes within the project boundaries to depths between 10 and 51.5 feet below the existing ground surface (BH-1 through BH-10). The boreholes were performed to observe the soil strata and to collect soil samples of the underlying strata for laboratory testing.

The exploratory boreholes encountered discontinuous, heterogeneous alluvial type soil deposits that extended to the maximum depths explored. Generally, the upper seven and one-half to 15.5 feet of the surface is blanketed with continuous deposits of medium to highly plastic sandy and silty clays. The strata generally varied from slightly moist to saturated and stiff to hard in consistency.

Underlying the surface clays, the boreholes encountered medium dense to very dense granular deposits consisting of clayey sands, gravelly sands, clayey gravels, and sandy gravels that extended to a depth of 36 feet in BH-1. These deposits appeared moist to saturated and fine to coarse grained. Underlying the granular deposits in BH-I at a depth of 36 feet, was a medium plastic sandy clay deposit that extended to the maximum depth explored. This deposit appeared saturated and very stiff.

Groundwater was encountered in most of the boreholes at the time of our exploration on May 7 and May 10, 2005. The groundwater levels appeared to stabilize at depths between five and 12 feet below the existing ground surface. The upper groundwater level is likely a perched condition. No active springs or surface seeps were observed on the project site. It has been our experience that groundwater levels in the area can fluctuate due to seasonal rainfall and other factors, and likely rises and falls by several feet throughout the year.

Based on testing and experience with other projects in the area, the surface and near surface soils are highly plastic. Therefore, the surface
and near surface soils should be considered highly expansive.

The primary geotechnical concern in design and construction of the project is the presence of highly expansive surface soils. Shrinking and/or swelling of these soils due to loss or increase in moisture content can cause irregular and differential ground movement that can cause distress and damage to lightly loaded foundations, concrete slabs-on-grade and pavements. These soils are not suitable for support of shallow foundations or conventional concrete slabs-on-grade. Therefore, the structures should be supported by post-tensioned concrete slabs-on-grade.

Based on the results of the investigation, the site can be developed from a geotechnical engineering standpoint provided the recommendations presented in the Geotechnical Investigation are incorporated into the design.

**Update**

On February 19, 2015, PJC & Associates, Inc. re-evaluated their report from 2007 to see if conditions had changed and to re-confirm their original findings. PJC’s civil engineer visited the site and determined that the site has remained relatively unchanged and that additional geotechnical work was not warranted. The previous report was judged to still be valid for use in design and construction of the project, however, updated seismic design parameters were provided that is consistent with the updated 2013 California Building Code. The updated 2013 California Building Code seismic design parameters shall be followed.

**Mitigations Required**

Source Document List: (10) (49) (51)

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**Hazards and Nuisances including site Safety**

1. The project will not create a risk of explosion, release of hazardous substances or other dangers to public health. The project is not located near any hazardous operations. The project will provide a safe place for residents.

   **Seismicity**

   Geologic structures in the region are primarily controlled by northwest trending faults. No known active fault passes through the site. However, the site is located approximately 0.1 miles southwest of a possibly active fault, which exhibits features suggestive of geologically young surface rupture.

   The site is not located in the Alquist-Priolo Earthquake Fault Studies Zone. The three closest known potentially active faults to the site are the Rodgers Creek, the Maacama (south) and the San Andreas Faults. The Rodgers Creek fault is located approximately two and one half miles to the northeast, the Maacama fault is located approximately 11
miles north, and the San Andreas Fault is located approximately 17
miles southwest of the site. Table 1 outlines the nearest known active
faults and their associated maximum credible magnitudes.

Table 2 Closest Known Active Faults

<table>
<thead>
<tr>
<th>Fault Name</th>
<th>Distance from Site in (Miles)</th>
<th>Maximum Earthquakes (Moment Magnitude)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rodgers Creek</td>
<td>2.5</td>
<td>7.0</td>
</tr>
<tr>
<td>Maacama</td>
<td>11</td>
<td>6.9</td>
</tr>
<tr>
<td>San Andreas</td>
<td>17</td>
<td>7.9</td>
</tr>
</tbody>
</table>

The site is located within a zone of high seismic activity related to the
active faults that transverse through the surrounding region. Future
damaging earthquakes could occur on any of these fault systems dur-
ing the lifetime of the proposed project. In general, the intensity of
ground shaking at the site will depend upon the distance to the causa-
tive earthquake epicenter, the magnitude of the shock, the response
characteristics of the underlying earth materials, and the quality of
construction.

Rupture

Rupture of the ground surface is expected to occur along known active
fault traces. No evidence of existing faults or previous ground dis-
placement at the site due to fault movement is indicated in the geo-
logic literature or field exploration. Therefore, the likelihood of ground
rupture at the site due to faulting is considered to be low.

Ground Shaking

The site has been subjected in the past to ground shaking by earth-
quakes on the active fault systems that traverse the region. It is be-
lieved that earthquakes with significant ground shaking will occur in
the region within the next several decades. Therefore, it must be as-
sumed that the site will be subjected to strong ground shaking during
the design life of the structures.

Liquefaction

Field exploration revealed saturated granular soil strata at the site.
However, these deposits have a high relative density and contained an
average of approximately 15 percent fines. Analysis indicates that
these deposits are not prone to liquefaction. Therefore, it is judged
that liquefaction is not likely to occur at the site.

Lateral Spreading & Lurching
Lateral spreading is normally induced by vibration of near-horizontal alluvial soil layers adjacent to an exposed face. Lurching is an action, which produces cracks or fissures parallel to streams or banks when the earthquake motion is at right angles to them. There are no exposed faces or creek embankments adjacent to the site. Therefore, the potential for lateral spreading and lurching at the site is low.

**Conclusion**

Based on testing and experience with other projects in the area, the surface and near surface soils are highly plastic. Therefore, the surface and near surface soils should be considered highly expansive.

Based on the data reviewed, it is concluded that the project site could be subjected to seismic shaking from earthquakes on the active faults primarily in the Coast Ranges. Based on criteria of the 2001 edition of the California Building Code (CBC), the following should be used in seismic design:

a. Distance and Source: 4 K.M (Rodgers Creek)
b. Fault Type: A
c. Soil Profile Factor: Sd
d. Near Source Factors: Na=1.4, Nv= 1.73
e. Seismic Coefficients: Ca=0.62, Cv= 1.12

Implementation of standard building practices for seismically-active California bring the level of effect to less-than-significant.

**Source Document List:** (10) (49)

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**Energy Consumption**

1


The new development would not represent a wasteful use of energy. The project will utilize building materials that meet or exceed the energy standards set forth by the California Energy Commission in Title 24, Part 6 of the California Code Regulations.

**Source Document List:** (52)

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**Noise - Contribution to Community Noise Levels**

4

Community noise levels will not be significantly affected by the development. The only noise anticipated is from the normal automobile traffic generated from the project.

Temporary building equipment noise and construction noise will be subject to limitations established in the Santa Rosa Noise ordinance. All construction activities shall comply with the recommendations con-
Air Quality

Effects of Ambient Air Quality on project and Contribution to Community Pollution Levels

An air quality and greenhouse gas emissions analysis was conducted by AEM Consulting in May 2016 using the screening recommended by the Bay Area Air Quality Management District (BAAQMD) technical methodology and CEQA Guidelines for determining project levels of significance. The project was analyzed using CalEEMod Version 2013.2 to analyze the potential emissions resulting from construction and operation of the project. CalEEMod is designed to estimate air emissions from land use development projects. CalEEMod allows for estimations of greenhouse gas emissions.

Operational Emissions

As a residential housing project, operation of the project is not considered a source of Toxic Air Contaminants (TACs) or diesel particulate matter (PM_{2.5}) emissions. As a result, the project operation would not cause emissions that expose sensitive receptors to unhealthy air pollutant levels. Because the project would not be a source of TACs, it would not contribute cumulatively to unhealthy exposure to TACs.

Table 3 Operational Emissions

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>BAAQMD Threshold (tons/year)</th>
<th>Unmitigated Project Emissions (tons/year)</th>
<th>Significance?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROG</td>
<td>10</td>
<td>0.8698</td>
<td>No</td>
</tr>
<tr>
<td>NOx</td>
<td>10</td>
<td>0.7090</td>
<td>No</td>
</tr>
<tr>
<td>PM_{10}</td>
<td>15</td>
<td>0.4444</td>
<td>No</td>
</tr>
<tr>
<td>PM_{2.5}</td>
<td>10</td>
<td>0.1296</td>
<td>No</td>
</tr>
</tbody>
</table>

The analysis concluded that there would be an incremental increase in Operational Air Pollutant Precursor Emissions. However, the amount does not rise to the level of significance per the BAAQMD CEQA Guidelines.

Construction-Related Emissions

Construction of the project would result in the temporary generation of NOx and PM_{10} emissions. Short-term air quality impacts are mostly due to fugitive dust (PM_{10}) generated by construction and development activities, and emissions from equipment and vehicle engines (NOx) operated during these activities. Dust generation is dependent on soil type and soil moisture, as well as the amount of total acreage actually involved in clearing, grubbing and grading activities. Clearing and earthmoving activities comprise the major source of construction...
dust generation, but traffic and general disturbance of the soil also contribute to the problem. Sand, lime or other fine particulate materials may be used during construction, and stored on-site. If not stored properly, such materials could become airborne during periods of high winds. The effects of construction activities include increased dust fall and locally elevated levels of suspended particulates. PM$_{10}$ is considered unhealthy because the particles are small enough to inhale and damage lung tissue, which can lead to respiratory problems. PM$_{10}$ emissions during project construction can be reduced through compliance with institutional requirements for dust abatement and erosion control.

Construction period emissions were modeled using CalEEMod defaults for a project of this type and size. The CalEEMod model provided total annual PM$_{2.5}$ exhaust emissions (assumed to be diesel particulate matter) for the off-road construction equipment and for exhaust emissions from on-road vehicles (haul trucks, vendor trucks, and worker vehicles). The on-road emissions are a result of haul truck travel, worker travel, and vendor deliveries during grading and construction activities.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>BAAQMD Threshold (tons/year)</th>
<th>Unmitigated Project Emissions (tons/year)</th>
<th>Significance?</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROG</td>
<td>10</td>
<td>1.7343</td>
<td>No</td>
</tr>
<tr>
<td>NOx</td>
<td>10</td>
<td>4.0131</td>
<td>No</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>15</td>
<td>0.2499</td>
<td>No</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>10</td>
<td>0.2339</td>
<td>No</td>
</tr>
</tbody>
</table>

Construction-related emissions could cause temporary adverse nuisance impacts. Fine particulate matter associated with fugitive dust is the construction pollutant of greatest concern. Construction equipment would also produce exhaust emissions. The Bay Area Air Quality Management District and the City of Santa Rosa’s Standard Conditions of Approval for standard dust control practices would be required. With implementation of mitigation measures, the potential for construction period dust (particulate matter) impacts would not be significant.

The project would have a less than significant impact with respect to community risk caused by construction activities.

Greenhouse Gas Emissions (GHG)

Similar to regulated air pollutants, GHG emissions and global climate change also represent cumulative impacts. GHG emissions contribute, on a cumulative basis, to the significant adverse environmental impacts of global climate change. Climate change impacts may include an increase in extreme heat days, higher concentrations of air pollutants,
sea level rise, impacts to water supply and water quality, public health impacts, impacts to ecosystems, impacts to agriculture, and other environmental impacts. No single project could generate enough GHG emissions to noticeably change the global average temperature. The combination of GHG emissions from past, present, and future projects contribute substantially to the phenomenon of global climate change and its associated environmental impacts.

Table 5 Greenhouse Gas Emissions – Operational

<table>
<thead>
<tr>
<th>Mitigated</th>
<th>CO2 (Total all sources) (metric tpy)</th>
<th>CH4 (metric tpy)</th>
<th>N2O (metric tpy)</th>
<th>CO2e (metric tpy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area Source:</td>
<td>0.9600</td>
<td>0.00095</td>
<td>0.00</td>
<td>0.9801</td>
</tr>
<tr>
<td>Energy:</td>
<td>134.5574</td>
<td>0.00504</td>
<td>0.00162</td>
<td>135.1653</td>
</tr>
<tr>
<td>Mobile:</td>
<td>441.5181</td>
<td>0.0191</td>
<td>0.00</td>
<td>441.9245</td>
</tr>
<tr>
<td>Solid Waste:</td>
<td>7.3767</td>
<td>0.4360</td>
<td>0.00</td>
<td>16.5316</td>
</tr>
<tr>
<td>Water &amp; Wastewater:</td>
<td>13.0392</td>
<td>0.1682</td>
<td>0.00406</td>
<td>17.8303</td>
</tr>
<tr>
<td>Total:</td>
<td>597.4515</td>
<td>0.6295</td>
<td>0.00568</td>
<td>612.4318</td>
</tr>
<tr>
<td>BAAQMD Threshold:</td>
<td></td>
<td></td>
<td></td>
<td>1,100 (MT CO2e/per year)</td>
</tr>
</tbody>
</table>

Significance? No

As can be seen in the table above, the combined CO2e is below BAAQMD’s Threshold of Significance, therefore mitigations are not required and the project will not cause significant cumulative impacts. The project would incrementally generate greenhouse gas emissions; however, these emissions would not have a significant impact on the environment. The project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases.

Mitigations Required

Source Document List: (10) (29) (31) (46) (53)

Environmental Design

Visual Quality - Coherence, Diversity, Compatible Use and Scale

The general site setting is an undeveloped field with no existing structures. The property is located in southwest Santa Rosa. Nearby properties have been developed over the past 60 years with subdivisions of single family residential developments located to the east. One adjoining property is a public school. The remainder of nearby properties are predominantly rural residential in use.

Higher density urban infill projects typify new development in southwest Santa Rosa, such as this project.

The project will meet the following specific housing goals:

- foster compact rather than scattered development pattern;
- livable neighborhood with everyday shopping, park and recre-
The nature of the project is designed to serve low and very low income households by providing affordable housing. It is not anticipated that the project will, in and of itself, generate new demand for the housing market. No significant change to the demographic character of the neighborhood is expected because of the project.


<table>
<thead>
<tr>
<th>Socioeconomic Code</th>
<th>Source or Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Demographic Character Changes</strong></td>
<td><strong>1</strong> The nature of the project is designed to serve low and very low income households by providing affordable housing. It is not anticipated that the project will, in and of itself, generate new demand for the housing market. No significant change to the demographic character of the neighborhood is expected because of the project. Source Document List: (10) (31)</td>
</tr>
</tbody>
</table>
| **Displacement** | **1** The Uniform Relocation Act, passed by Congress in 1970, establishes minimum standards for federally-funded programs and projects that require the acquisition of real property (real estate) or displace persons from their homes, businesses, or farms. The Uniform Act’s protections and assistance apply to the acquisition, rehabilitation, or demolition of real property for federal or federally-funded projects.

Section 205 of the URA requires that, “Programs or projects undertaken by a federal agency or with federal financial assistance shall be planned in a manner that (1) recognizes, at an early stage in the planning of such programs or projects and before the commencement of any actions which will cause displacements, the problems associated with the displacement of individuals, families, businesses, and farm operations, and (2) provides for the resolution of such problems in order to minimize adverse impacts on displaced persons and to expedite program or project advancement and completion.”

The subject site is currently vacant and has never been developed. No individuals or businesses will be displaced by the project. The project is not subject to the Uniform Relocation Act. Source Document List: (10) (54) |
### Employment and Income Patterns

<table>
<thead>
<tr>
<th>Employment and Income Patterns</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>No impact is expected as a result of the project, as it represents no significant change to the demographics of the area. It is anticipated that the operational nature of the completed project will create two full time Manager positions and a Maintenance worker. Source Document List: (10) (55)</td>
<td></td>
</tr>
</tbody>
</table>

### Community Facilities and Services Code

<table>
<thead>
<tr>
<th>Community Facilities and Services Code</th>
<th>Source or Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Educational Facilities</strong></td>
<td>The project does not represent a significant change in the demographics of the neighborhood. Sheppard Elementary School is adjacent to the property and creates the opportunity for elementary school children to walk to school as opposed to transportation by bus. Meadow View Elementary School at 2665 Dutton Meadow is approximately a half of a mile from the project. A total of 21 schools are within two miles of the project, including Elsie Allen High School and Lawrence Cook Middle School. Roseland Creek Elementary School is located approximately ¼ mile north of the project site. The 79-unit project will draw residents/students to the school district but school impact fees will mitigate the impact. Some new students may enter the district, but project fees collected will help mitigate the impact of any new additional students. Therefore, the project will not significantly affect schools in the Santa Rosa City School District. Source Document List: (10) (30) (31)</td>
</tr>
<tr>
<td><strong>Commercial Facilities</strong></td>
<td>The project is located in an area that is convenient for shopping and transit. A major shopping center is approximately 0.75 miles from the site. Sebastopol Road is located approximately 0.63 miles from the site and has local restaurants, a pharmacy, a check cashing store, small grocery stores, gas stations and other convenient amenities. The project is located within two miles of 12 banks and ATMs. Located at Southwest Community Park approximately 0.3 miles south of the project, the Santa Rosa CityBus operates a transit hub where three bus routes run every half-hour. Santa Rosa CityBus operates route 5 – Santa Rosa Avenue, route 12 – Roseland, and route 15 – Stony Point Road. Route 19 – South City Connector connects the Southwest area routes to the Transit Mall in downtown Santa Rosa where connections to the Sonoma County Transit and Golden Gate Transit can be made to travel from Cloverdale to San Francisco and from Sebastopol to Sonoma. No significant impact is expected because the project represents no significant change to the demographics of the area. Source Document List: (10) (31)</td>
</tr>
</tbody>
</table>
### Health Care

| 1 | The project is located near several hospitals, including Santa Rosa Memorial Hospital located 2.45 miles from the project site. Sutter Medical Center is located approximately seven miles north of the project or an 11 minute drive. This new, regional facility offers 24-hour emergency room, intensive care, neurosurgery, stroke, cardiovascular and surgery services. The Center is a full-service regional hospital. For Kaiser Permanente members, Kaiser Hospital and Medical Offices are located approximately 6 miles north of the project site and offers emergency room services. Southwest Community Health Center is located approximately 1.3 miles or a five minute drive from the site and offers primary medical care, dental services, mental health, optometry, podiatry and more. St. Joseph Urgent Care clinic is located 1.5 miles from the project or a five minute drive and is open every day between 7:00 AM and 7:00 PM. There are other smaller clinics, medical facilities, convalescent hospitals and surgical facilities located within five miles of the project. There are no significant impacts to Healthcare facilities or delivery systems. Source Document List: (10) (31) (56) (57) (58) |

### Social Services

| 1 | The project does not represent a significant change to the demographics of the area or on area social services as it serves the existing population. The City of Santa Rosa and Sonoma County is rich in the number of social service providers. Source Document List: (10) (31) |

### Solid Waste

| 1 | Solid waste removal services are already available to the neighborhood. The project would not significantly increase the demand for solid waste removal service beyond what is already provided for in the area. Source Document List: (10) (31) (45) (46) |

### Waste Water

| 1 | The project site is currently in unincorporated Sonoma County and has never been developed. A Santa Rosa City Council Resolution passed in August 2010 approved a Utility Certificate to extend City water and sewer services to the project. The resolution cites that extension of City sewer services to the subject properties would be beneficial to the public health, safety and welfare in that it would allow construction of an affordable housing project. The proposed project would not exceed wastewater treatment requirements of the Regional Water Quality Control Board and would not require the construction of new wastewater/storm water treat- |
ment facilities or expansion of existing ones. Therefore, the proposed project would result in a less-than-significant wastewater impact.

Source Document List: (10) (31) (45) (46)

| Storm Water | The subject site is located in southwest Santa Rosa in an established residential district. Urban development, a railroad grade, farming in the area, and a range of streets interrupt the normal drainage. There is no urban designed storm drain system along the streets in this area which might substitute for the former natural drainage. Surface water is likely to sheet flow to the properties to the south and to Burbank Ave. Burbank Ave has a road side ditch which may conduct water to the south. An informal array of ditches and culverts conducts storm water to Hearn Ave and from there to the Laguna de Santa Rosa which is the primary drainage for the Santa Rosa area. These ditches are flat and difficult to follow. The County of Sonoma declared the area to be a flood prone urban area and placed additional drainage requirements during the 1980’s.

Local Impacts

The Standard Urban Storm Water Mitigation Plan (SUSMP) has been developed as part of Sonoma County’s Storm Water Management Program to address post-development storm water pollution and peak flows from new development and redevelopment projects. Implementation of this plan constitutes the management of storm water to the maximum extent practicable for development and redevelopment projects. Urban development increases storm water volume, velocity and pollutant load. Two important changes can occur during urban development.

First, where no urban development has previously occurred, natural vegetated pervious ground cover may be converted to impervious surfaces such as paved highways, streets, rooftops, and parking lots. Natural vegetated soil can both absorb rainwater and remove pollutants, providing a very effective natural purification process. Because impervious pavement and concrete can neither absorb water nor remove pollutants, the natural purification characteristics of the land are lost.

Secondly, urban development can create new pollution sources as human population density increases and may bring with it higher levels of car emissions, car maintenance wastes, municipal sewage, pesticides, household hazardous wastes, pet wastes, trash, etc., which can be washed into the storm drain system.

As a result of these two changes, the storm water runoff leaving a newly developed urban area may be significantly greater in volume, velocity and/or pollutant load than pre-development storm water runoff from the same area. In addition, the cumulative increase in off-site runoff may cause downstream erosion and flooding, which can
| Water Supply | 1 | subsequently increase sediment loads to the entire storm water conveyance system. 

The SUSMP goals are to manage storm water runoff from new development and redevelopment for both quality and quantity, as close to the point of origin as possible, and to conserve natural areas of the development site. 

The first goal is to prevent pollutants generated at developed or redeveloped sites from reaching the storm water conveyance system to the maximum extent practicable. 

The second goal is to limit storm water flows from post-development sites to predevelopment quantities to the maximum extent practicable. 

The third goal is to conserve natural areas of a development site to the maximum extent practicable. 

The Santa Rosa City Council Resolution approving the Utility Certificate states that SUSMP will apply to the project and SUSMP worksheets and a preliminary SUSMP Mitigation Plan must be submitted with the Civil Plans prior to Design Review Board consideration of the project. Implementation of a SUSMP Mitigation Plan approved by the City of Santa Rosa and the County of Sonoma in their joint Design Review Board process for the project will reduce impacts from storm water runoff to less-than-significant. 

Regional Impacts 

If the cumulative land disturbance of the project is equal to or greater than one (1) acre, then the project is subject to National Pollutant Discharge Elimination System (NPDES) requirements as set by the Regional Water Quality Control Board (RWQCB). Documentation of coverage under the State Water Resource Control Board’s General Construction Permit (General Permit) must be submitted to the Grading & Storm Water Section of the Sonoma County’s Permit and Resource Management Department prior to issuance of any grading permit for the proposed project. 

Mitigations Required 

Source Document List: (10) (31) (45) (46) (59) 

| Water Supply | 1 | The project site is currently in unincorporated Sonoma County and has never been developed. A City Council Resolution passed in August 2010 approved a Utility Certificate to extend City water and sewer services to the project. The resolution cites that extension of City sewer services to the subject properties would be beneficial to the public health, safety and welfare in that it would allow construction of an affordable housing project. 

The project would require an incremental new demand for water, but |
would not represent a significant change to the City’s water supply by providing service to the project.

Prior to building permit issuance, a Water Conservation Plan shall be submitted for all landscaping, subject to PRMD review and approval. The Water Conservation Plan shall comply with all provisions of the Water Efficient Landscape Ordinance (WELO). Compliance with WELO meets the requirements under CalGreen for Water Efficiency and Conservation of outdoor water use.

The City’s General Plan 2035 states that the current water supply plus the development of additional water sources and continued implementation of Santa Rosa’s aggressive water conservation measures will enable the City to meet projected water demand in 2035, which includes the proposal.

Since the proposed project would have sufficient water supply available from existing entitlements and incorporates low water-use landscaping, it would result in a less-than-significant project-specific and cumulative water impact.

Source Document List: (10) (30) (31) (45) (46) (48) (60)

Public Safety
- Police

Law enforcement in unincorporated areas of Santa Rosa, including the project area, is provided by the Sonoma County Sheriff’s Department (SCSD) Patrol Bureau. There are approximately 140 deputies assigned to the Patrol Bureau, patrolling approximately 1,600 square miles of land and 60 miles of the Pacific shoreline that make up Sonoma County. Most deputies assigned to the SCSD Patrol Bureau operate out of the main office located in Santa Rosa. The remaining deputies are assigned to one of the four sub-stations that are located in Guerneville, Sonoma, Larkfield and Roseland.

The SCSD has divided the County into eight law enforcement zones and the project is located within Zone 7. This zone is staffed out of the Roseland Community Oriented Policing substation (R-COP) and covers portions of the unincorporated districts of Roseland, Bellevue, and Wright. R-COP started in 1990 as a community oriented policing program based out of a store front office in the Roseland Shopping Center (Sonoma County Sheriff’s Department Website 2004).

The California Highway Patrol (CHP) is responsible for patrolling Highway 101 and State Highway 12 corridor. In addition, the CHP enforces all vehicle codes in the unincorporated areas of the County, including the investigation of abandoned motor vehicles and motor vehicle accidents, enforcement of speed limits and drunken driving laws. By providing these services, the CHP allows the County deputies to focus on other types of criminal activities and crime prevention programs within the area.

The project, by its nature, will not require a significant change in the
public safety services already provided in the area. The nearest Sheriff’s Department location is located 3.4 miles north of the project at 2796 Ventura Avenue. The project is expected to have a less-than-significant effect on public services.

Source Document List: (10) (30) (31) (46)

<table>
<thead>
<tr>
<th>- Fire</th>
<th>1</th>
</tr>
</thead>
</table>
| The project is required to comply with all City of Santa Rosa Fire Department standards including:

- two permanent points of public access for projects with more than 50 dwelling units;
- adequate site address signage including illuminated address numbers;
- hydrant spacing;
- sufficient street width to allow Fire Department operations without hindering residents egress from the site;
- approval of any traffic control devices or gates at the project;
- access to within 150 feet of exterior walls or structures;
- adequate water pressure to meet fire flow requirements;
- all structures protected with automatic fire sprinkler systems.

The project will not require significant new fire protection service in the area. The project will be fully equipped with fire sprinkler system protection on site. The nearest Fire Station is located approximately one mile west of the project at 2373 Circadian Way. The project is expected to have a less-than-significant effect on public services as it is consistent with the City of Santa Rosa’s General Plan.

Source Document List: (10) (31) (45) (46)

<table>
<thead>
<tr>
<th>- Emergency Medical</th>
<th>1</th>
</tr>
</thead>
</table>
| The Emergency Medical Services (EMS) Division is managed by a Division Chief who reports directly to the Deputy Chief of Operations.

All Santa Rosa Fire Department suppression personnel are medically trained to the "Emergency Medical Technician" (EMT) level and are proficient in the use of emergency cardiac defibrillators which are carried on all fire apparatus. Thirty-five suppression personnel have received additional training and are licensed paramedics. EMS personnel receive extensive training in fire suppression, emergency medical care, hazardous materials, rope rescue, swift water rescue, confined space rescue, auto extrication and multi-casualty incidents.

In 2002, Santa Rosa Fire Department (SRFD) and American Medical Response (AMR) joined together to create a Fire Engine Company Paramedic Program. The department now has paramedics on nine of the ten Santa Rosa fire engines which are staffed twenty-four hours a day, seven days a week.

The project, by its nature, will not require a significant change in the need for emergency medical services above what has already been provided.

Source Document List: (10) (31) (45) (46)
<table>
<thead>
<tr>
<th>Source Document List</th>
<th>Provided for in the area. The project is consistent with the City of Santa Rosa’s General Plan. Source Document List (10) (31) (45) (46) (61)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Space and Recreation</td>
<td>Located 0.3 miles south of the site is Southwest Community Park. This 19-acre community park features children’s play areas, basketball, group picnic sites with barbeques, restrooms, open lawn area, soccer fields and ball fields. Located 0.7 miles northwest of the project, Cook Park is a 12-acre neighborhood park that features picnic tables, athletic fields, children’s play structures, tennis courts and open lawn area. The surrounding area also has numerous small neighborhood parks and open space areas. As such, the development does not represent a significant new demand for open space. Source Document List: (10) (62)</td>
</tr>
<tr>
<td>- Open Space</td>
<td>1</td>
</tr>
<tr>
<td>- Recreation</td>
<td>1</td>
</tr>
<tr>
<td>- Cultural Facilities</td>
<td>1</td>
</tr>
<tr>
<td>Transportation</td>
<td>A traffic study was performed in July 2010 by Whitlock &amp; Weinberger Transportation, Inc. The focus of the evaluation was to identify the potential traffic impacts associated with a 79-unit multifamily residential complex at 1980-20 I 0 Burbank Avenue in unincorporated County of Sonoma. The project site is located in a County island within the City of Santa Rosa in the Roseland neighborhood. Vehicle access would be provided on Liana Drive which currently ends west of Biwana Drive, but would extend to Burbank Avenue with the completion of this project. This connection would provide access to both West Avenue and Burbank Avenue. In addition to vehicle trips generated by the project, the project has a potential for generating new pedestrian, bicycle and transit-oriented trips. Source Document List: (10)</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
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<td>1</td>
<td>1</td>
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</tbody>
</table>
Crossroads Affordable Housing Project  
1990-2030 Burbank Avenue, Santa Rosa, California  
May 2016

**Personal Vehicles**

The project is expected to generate approximately 602 daily new vehicle trips, of which 42 new trips would occur during the a.m. peak hour and 61 new trips would occur during the p.m. peak hour.

Vehicle conditions were evaluated for a.m. and p.m. peak hours under Baseline, Baseline plus Project, Future and Future plus Project conditions for the following six intersections:

- Burbank Avenue/Sebastopol Road
- Burbank Avenue/Liana Drive (future intersection)
- Biwana Drive/Liana Drive
- West Avenue/Liana Drive
- Burbank Avenue/Hearn Avenue
- Hearn Avenue/West Avenue

All study intersections are located in unincorporated County of Sonoma except for the intersection of Burbank Avenue/Hearn Avenue which is located within the City of Santa Rosa.

It was found that all study intersections currently operate acceptably and would be expected to continue to do so with the addition of project-generated trips. Under future conditions, the intersections of Burbank Avenue/Hearn Avenue and Hearn Avenue/West Avenue are expected to operate unacceptably with conditions worsening with the addition of project-generated traffic. To mitigate the unacceptable operations at Burbank Avenue/Hearn Avenue, it is recommended that the County of Sonoma coordinate with the City of Santa Rosa to collect the appropriate Development Impact Fees that could be used towards signalization of this intersection. No mitigations are recommended for the intersection for Hearn Avenue/West Avenue because the project would add less than five seconds of average delays which is below the threshold for significance as defined by the County of Sonoma.

Currently, Liana Drive terminates west of Biwana Drive resulting in very little east-west through traffic meaning that drivers turning at this intersection are used to making the turn relatively unopposed. With the extension of Liana Drive, the volume of east-west traffic would increase creating more conflicting traffic for drivers making turning movements at the intersection of Liana Drive/Biwana Drive. To improve safety at this intersection it is recommended that the intersection be converted to an all-way stop control.

**Pedestrian**

There is a paved walkway along Burbank Avenue separated from the roadway by a continuous concrete curb. Adjacent to the proposed project site, Liana Drive and West Avenue are both improved with sidewalks. The project includes installation of sidewalks along the pro-
The project frontage that would connect to existing sidewalk on Liana Drive. This provides sidewalk for the entire route to the nearby Sheppard Accelerated Elementary School and Roseland Accelerated Middle School. Since sidewalk currently does not exist on Burbank Avenue near the project site, newly added sidewalk on Burbank Avenue would end at the edge of the project frontage. The proposed project does not include a pedestrian connection to the Roseland Creek Elementary School located about 0.25 miles north of the project site. Coordination with the Roseland School District is recommended to provide safe access between the site and Roseland Creek Elementary School. This could be accomplished through installation of a paved or other all-weather surface pathway to serve pedestrian trips if there is sufficient right-of-way available, or initiation of busing if there is not.

**Bicycle**

The project would not add any new bicycle facilities. Due to the low-volume, residential nature of Burbank Avenue, West Avenue and Liana Drive, bicyclists would be able to ride with traffic. Regional connections would be provided by Class II bicycle lanes on both Sebastopol Road and Hearn Avenue.

**Transit**

Although located in unincorporated Sonoma County, the area surrounding the project site is served by Santa Rosa CityBus fixed route service. The bus stops nearest the project site are located on West Avenue near Liana Drive, which is about 1,500 feet from the center of project site. These stops are served by Route 12 – Roseland. Additional transit service is provided at the Southwest Community Park at the intersection of Hearn Avenue/Burbank Avenue, which is approximately 2,000 feet from the project site and is served by Route 12 – Roseland, Route 15 – Stony Point Road and Route 19 – South City Circulator. All transit routes run on approximately 30 minute headways on weekdays and one-hour headways on weekends; Route 15 does not provide Sunday service.

Existing transit service is available within 2,000 feet of the project site, or approximately a ten-minute walk for the average person to the transit stop located on West Avenue, which is the preferred location considering that sidewalks will be provided along the entire route. Transit service is available from the Southwest Community Park, which also would be about a ten-minute walk from the project site; however, sidewalks would not be provided along this route making it less desirable. It is expected that this existing service would be adequate for the project.

**Parking**

The project provides adequate on-site and street side parking spaces.
Conclusion
Existing vehicle, bicycle and transit facilities are expected to adequately serve the proposed project. The project will not increase the demand for transportation above what is already available in the area.
Source Document List: (10) (31) (46) (63)

<table>
<thead>
<tr>
<th>Natural Features</th>
<th>Source or Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Resources</td>
<td>1</td>
</tr>
<tr>
<td>A small vernal pool and four small non-jurisdictional seasonal wetlands were found at the site. Formal consultation with the U.S. Army Corps of Engineers for jurisdictional delineation has been completed. Wetland creation credits were purchased for the 0.2 acres of wetland found at the property.</td>
<td></td>
</tr>
<tr>
<td>Consultation is complete; no further actions are necessary. A Clean Water permit is not required.</td>
<td></td>
</tr>
<tr>
<td>Surface Water</td>
<td>4</td>
</tr>
<tr>
<td>A small vernal pool and four small non-jurisdictional seasonal wetlands were found at the site. Formal consultation with the U.S. Army Corps of Engineers for jurisdictional delineation has been completed. Wetland creation credits were purchased for the 0.2 acres of wetland found at the property.</td>
<td></td>
</tr>
<tr>
<td>A Clean Water permit is required.</td>
<td></td>
</tr>
<tr>
<td>Mitigations Required</td>
<td></td>
</tr>
<tr>
<td>Unique Natural Features and Agricultural Lands</td>
<td>1</td>
</tr>
<tr>
<td>No unique features are located on the site. There are no active agricultural lands on or near the project site.</td>
<td></td>
</tr>
<tr>
<td>Source Document List: (10) (32)</td>
<td></td>
</tr>
<tr>
<td>Vegetation and Wildlife</td>
<td>4</td>
</tr>
<tr>
<td>The project activity will affect natural habitats containing endangered species. The property is located within the Santa Rosa Plain Conservation Strategy area, and within 2,200 feet of a known California tiger salamander breeding location. Habitat at the site is suitable to support the endangered California tiger salamander (<em>Ambystoma californiense</em>) as well as three endangered plant species: Sebastopol meadowfoam (<em>Limnanthes vinculans</em>), Sonoma sunshine (<em>Blennosperma bakeri</em>), and Burke’s goldfields (<em>Lasthenia burkei</em>).</td>
<td></td>
</tr>
<tr>
<td>Formal consultation with the U.S. Fish &amp; Wildlife Service under Section 7 of the Endangered Species Act has been completed. Preservation acreage credits were purchased from the Davis Preserve for 0.2 acres</td>
<td></td>
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</tbody>
</table>
of endangered plant species found on the property. California tiger salamander credits were purchased from the Hazel Mitigation Preserve at the ratio of 2:1, for a total of 10 acres purchased.

Consultation is complete. Terms and conditions set forth by Fish & Wildlife in the biological opinion will be included as conditions of approval to limit take of individuals.

The project is also subject to the conditions of approval attached to the Incidental Take Permit issued by the California Department of Fish and Wildlife on October 23, 2015. The Permit allows for the incidental take of Endangered Species California tiger salamander.

**Mitigations Required**


<table>
<thead>
<tr>
<th>Other Factors</th>
<th>Source or Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flood Disaster Protection Act</td>
<td>The project does not involve property acquisition, land management, construction or improvement within a 100 year floodplain (Zones A or V) or 500 year floodplain (Zone B) identified on a Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM). Source Document List: (9)</td>
</tr>
<tr>
<td>Coastal Barrier Resources Act/Coastal Barrier Improvement Act</td>
<td>The Coastal Barrier Resources Act of the United States (CBRA, Public Law 97-348), enacted October 18, 1982, designated various undeveloped coastal barriers, depicted by a set of maps adopted by law, for inclusion in the John H. Chafee Coastal Barrier Resources System (CBRS). Areas so designated were made ineligible for direct or indirect Federal national security, navigability, and energy exploration. CBRS areas extend along the coasts of the Atlantic Ocean and the Gulf of Mexico, Puerto Rico, the U.S. Virgin Islands, and the Great Lakes, and consist of 857 units. There are no Coastal Barrier Resources in California. Source Document List: (64)</td>
</tr>
<tr>
<td>Airport Runway Clear Zone or Clear Zone Disclosure</td>
<td>The nearest airport to the project site is the Charles M. Schultz Sonoma County Airport 7.59 miles to the north. The proposed project would not result in a significant airport related safety hazard. The project site is not within the airport-related building height referral area and is not within the Runway Clear Zone (RCZ) for the Charles M. Schultz Sonoma County Airport. Source Document List: (10) (35) (44)</td>
</tr>
<tr>
<td>Other</td>
<td>The project will provide affordable housing for low- and very low-income individuals, families, seniors, and the disabled. The project is beneficial to</td>
</tr>
</tbody>
</table>
Alternative A - No Action Alternative [24 CFR 58.40(e), Ref. 40 CFR 1508.9] (Discuss the benefits and adverse impacts to the human environment of not implementing the preferred alternative).

This alternative would entail no change to the site, which would remain in its existing condition. The approximate 5 acre property (comprised of two 2.5 acre parcels) is rectangular, relatively flat, and located in the Roseland/southwest area of unincorporated Sonoma County. The property is currently undeveloped.

Impacts

Under this alternative, the project impacts that are described in the Environmental Assessment would not occur. The property would continue in its current state – possibly turning over to another development for an unknown use. The growing need for affordable housing would continue at its current rate. Liana Drive would continue to be truncated. Street improvements would not occur.

Alternative B – Alternative Design

Alternative designs for the project were considered including variations of building configurations and interior spaces. In cooperation with the Sonoma County Community Development Commission, proposed development project was the most suitable because it was the most cost effective, allows for the most efficient of use of the site, and affords the best opportunity for serving the low income housing needs of the community. This project is designed to work on this site within the zoning, transportation and other planning constraints that apply specifically to this location. This project fits the site, and provides needed affordable housing to the community and is a safe place for individuals, including those with disabilities.

Alternative C – Alternative use of the site

This alternative would mean that private development of the site by potential commercial projects or other uses would impact the opportunities that exist for the development of affordable housing. The project proponent is a developer of residential affordable housing projects, and as such does not possess the capacity or desire to develop alternative uses for this particular parcel.

Preferred Alternative – Proposed project

The project sponsor and architect considered alternative configurations of uses on the site including varying amounts of housing and numbers of parking spaces. Given the constraints of the size of the site, the street improvements, the proximity to public transit and in light of the housing goals of Sonoma County and Burbank Housing, the current configuration was found to be the most appropriate.

The proposed project is the superior design, configuration and location and is available at a reasonable cost to the City of Santa Rosa, Sonoma County and the developer.
Mitigation Measures Recommended [24 CFR 58.40(d), 40 CFR 1508.20]

(Recommend feasible ways in which the proposal or external factors relating to the proposal should be modified in order to eliminate or minimize adverse environmental impacts.)

**Air Quality**

AQ1. The following measures shall be imposed as appropriate during construction to reduce Toxic Air Contaminants (TACs):

   a) Water all active construction areas at least twice daily;
   b) Cover all trucks hauling soil, sand, and other loose materials or require all truck to maintain at least two feet of freeboard;
   c) Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites;
   d) Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites.
   e) Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets;
   f) Reduce unnecessary idling of construction equipment (i.e., limit idling time to 10 minutes or less) in proximity to sensitive receptors;
   g) Where possible, use newer, cleaner-burning diesel-powered construction equipment;
   h) Properly maintain construction equipment per manufacturer specifications; and
   i) Designate a Disturbance Coordinator responsible for ensuring that mitigation measures to reduce air quality impacts from construction are properly implemented.

**Cultural Resources**

CR1. Prior to commencement of on-site construction activities, a qualified archaeologist shall provide a brief training for construction personnel regarding cultural resources. The purpose of the training is to ensure that construction staff is trained to recognize potential resources.

CR2. If cultural resources are discovered during the project construction (inadvertent discoveries), all work in the area of the find shall cease, and a qualified archaeologist and representatives of the culturally affiliated tribe shall be retained by the project sponsor to investigate the find, and make recommendations as to treatment and mitigation of any impacts to those resources.

CR3. If human remains are encountered, all activity shall stop and the County Coroner must be notified immediately. All activity must cease until the County Coroner has determined the origin and disposition of said remains. The Coroner shall determine if the remains are prehistoric, and shall notify the State Native American Heritage Commission if applicable. Further actions shall be determined by the desires of the Most Likely Descendent.

CR4. The Public Improvement Plans and Building Plans shall contain the following note: “In the event that any remains of prehistoric or historic human activities are encountered during project-related activities, work in the immediate vicinity of the finds shall halt and the contractor shall immediately notify the project superintendent and the City of Santa Rosa liaison. Work shall not resume until a qualified archaeologist or historic archaeologist, as appropriate, approved by the Sonoma County Community Development Commission, has evaluated the situation and made recommendations for treatment of the resource, which recommendations are carried out. If human burials are encountered, the contractor must also contact the County Coroner.”
Endangered Species

ES1. The project proponent shall minimize the potential for harm, harassment, or killing of federally listed species (i.e. California tiger salamander) resulting from project related activities by implementation of the conservation measures as described in the August 21, 2006, Biological Assessment, and appearing in the Description of the Proposed Action section of the U.S. Fish & Wildlife Service (Service) biological opinion.

ES2. The project proponent shall make the terms and conditions in this biological opinion a required term in all contracts for the proposed action that are issued to all contractors.

ES3. The project proponent shall designate a Superintendent or other designee who will be responsible for implementing the conservation measures and Terms and Conditions of the biological opinion and shall be the point of contact for the proposed action. The Superintendent shall maintain a copy of the biological opinion onsite whenever construction is taking place. Their name and telephone number shall be provided to the Service at least thirty (30) calendar days prior to groundbreaking at the project. Prior to groundbreaking, the Superintendent must submit a letter to the Service verifying that they possess a copy of the biological opinion and have read the Terms and Conditions.

ES4. A qualified biologist(s) or trained monitor(s) shall be onsite during all activities that may result in the take of the Sonoma County Distinct Population Segment of the California tiger salamander. The qualifications of the biologist(s) and monitor(s) must be presented to the Service for review and written approval prior to ground-breaking at the project site. Prior to approval, the biologist(s) and monitor(s) must submit a letter to the Service verifying that they possess a copy of this biological opinion and understand its Terms and Conditions. The biologist(s) and monitor(s) will keep a copy of this biological opinion in their possession when onsite. The biologist(s) and monitor(s) shall be given the authority to stop any work that may result in take of this listed animal species. If the biologist(s) or monitor(s) exercises this authority, the Service and the California Department of Fish & Game (CDFG) shall be notified by telephone and electronic mail within one (1) working day. The Service contact is Chris Nagano, Deputy Assistant Field Supervisor, Endangered Species Division at the Sacramento Fish and Wildlife Office at telephone (916) 414-6600.

ES5. The onsite biologist(s) or monitor(s) shall have oversight over implementation of all the Terms and Conditions in this biological opinion, and shall have the authority to stop project activities, through communication with the Superintendent, if any of the requirements associated with these Terms and Conditions are not being fulfilled. If the biologist/construction liaison has requested a stop work due to take of any of the listed species the Service and the CDFG will be notified within one (1) working day via email or telephone.

ES6. Permanent and temporary disturbances and other types of project-related disturbance to habitats of the California tiger salamander shall be limited to the boundaries of the project site.

ES7. Prior to the initiation of ground disturbance on the project site, pre-construction surveys shall be conducted by a Service-approved biologist(s) for the California tiger salamander. These surveys shall consist of walking surveys of the project site and adjacent areas accessible to the public to determine presence of the species. California tiger salamanders will be removed by the biologist(s) and translocated under the direction and authorization of the Service and as described in the Conservation Strategy.

ES8. All California tiger salamanders captured on the project site during monitoring and inspections conducted during construction will be removed by the biologist(s) and translocated under the direction and authorization of the Service and as described in the Conservation Strategy.

ES9. To prevent inadvertent entrapment of California tiger salamanders during construction, all excavated, steep-walled holes or trenches more than 2 feet (0.61 meters) deep shall be covered at the close of each working day by plywood or similar materials, or provided with one or more escape ramps constructed of...
earth fill or wooden planks. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals. If at any time a trapped listed animal is discovered, the on-site biologist should immediately place escape ramps or other appropriate structures to allow the animal to escape, or the Service and/or CDFG shall be contacted by telephone for guidance. The Service shall be notified of the incident by telephone and electronic mail within one working day.

ES10. The construction area at the project site shall be delineated with high visibility temporary fencing at least 4 feet (1.2 meters) in height, flagging, or other barrier to prevent encroachment of construction personnel and equipment onto any sensitive areas during project work activities. Such fencing shall be inspected and maintained daily until completion of the project. The fencing will be removed only when all construction equipment is removed from the site. Actions within the project area shall be limited to vehicle and equipment operation on existing roads. No project activities will occur outside the delineated project construction area.

ES11. Plastic mono-filament netting (erosion control matting), or similar material, shall not be used on the project site because California tiger salamanders may become entangled or trapped in it. Acceptable substitutes include coconut coir matting or tackified hydroseeding compounds.

ES12. Project employees shall be provided with written guidance governing vehicle use, speed limits on unpaved roads, fire prevention, and other hazards.

ES13. An outline of the employee training program shall be submitted to the Endangered Species Program at the Sacramento Fish and Wildlife Office within twenty (20) working days prior to the start of construction. Documentation of the training, including individual signed affidavits, will be kept of file and available on request.

ES14. If requested, before, during, or upon completion of ground breaking and construction activities, the project proponent shall allow access by Service and/or CDFG personnel to the project site to inspect project effects to the California tiger salamander and its habitat.

ES15. The project proponent shall provide the Service with adequate annual written reports that describe the progress or implementation of all of the Terms and Conditions of this biological opinion. The first report is due December 31, the first year of groundbreaking, and annually thereafter on December 31 until all of the terms and conditions are completed, as stated in writing by the Service. The reports shall be addressed to Ryan Olah, Coast Bay Delta Branch Chief, Sacramento Fish and Wildlife Office.

ES16. The project proponent shall report to the Service any information about take or suspected take of listed wildlife species not authorized in this biological opinion. The project proponent must notify the Service via electronic mail and telephone within 24 hours of receiving such information. Notification must include the date, time, location of the incident or of the finding of a dead or injured animal, and photographs of the specific animal. The individual animal shall be preserved, as appropriate, and held in a secure location until instructions are received from the Service regarding the disposition of the specimen or the Service takes custody of the specimen. The Service contacts are Chris Nagano, Deputy Assistant Field Supervisor, Endangered Species Program, Sacramento Fish and Wildlife Office at (916) 414-6600, and the Service’s Law Enforcement Division at (916) 414-6660.
ES17. The U.S. Department of Housing and Urban Development shall submit post-construction compliance reports prepared by the on-site biologist to the Sacramento Fish and Wildlife Office within sixty (60) calendar days of the date of the completion of construction activity on the project site. These reports shall adequately describe (i) dates that construction occurred; (ii) pertinent information concerning the success of the project in meeting compensation and other conservation measures; (iii) an explanation of failure to meet such measures, if any; (iv) known project effects on the California tiger salamander and listed plants, if any; (v) occurrences of incidental take of any of these listed species, if any; (vi) documentation of employee environmental education; and (vii) other pertinent information.

ES18. The Service must be notified within 24 hours of the finding of any injured or dead California tiger salamander, or any unanticipated damage to its habitat associated with the proposed action. Injured California tiger salamanders shall be cared by a licensed veterinarian or other qualified person. Notification must include the date, time, and precise location of the specimen/incident, and any other pertinent information. Dead animals should be sealed in a zip lock bag containing a piece of paper indicating the location, date and time when it was found, and the name of the person who found it; and the bag should be frozen in a freezer in a secure location. The Service contact persons are Chris Nagano, Deputy Assistant Field Supervisor (Endangered Species Program) at the Sacramento Fish and Wildlife Office at 916/414-6600 and Resident Agent-in-Charge Scott Heard of the Service’s Law Enforcement Division at telephone 916/414-6660.

ES19. In order for the Service to be kept informed of actions minimizing or avoiding adverse effects or benefiting listed species or their habitats, the Service requests notification of the implementation of any conservation recommendations for plant species. The conservation recommendations follow.

ES20. The employee education program conducted before groundbreaking for the proposed action should also include information about the Burke’s goldfields, Sonoma sunshine, and Sebastopol meadowfoam, including a description of their habitat needs; their status and protection; and a description of the measures being taken to reduce effects to these species during project construction and implementation.

ES21. The project proponent should attempt to translocate any listed plants, including their seeds and/or soils containing seeds, within the action area under the authorization and direction of the Service and as outlined in the Conservation Strategy.

ES22. Encourage or require the use of appropriate California native species in re-vegetation and habitat enhancement efforts associated with projects authorized by the U.S. Department of Housing and Urban Development.

ES23. Facilitate educational programs geared toward the importance and conservation of seasonal wetlands.

ES24. Encourage seed banking in Center for Plant Conservation certified botanic gardens (provided the seed collection does not adversely affect the source populations).

ES25. Assist the Service in implementing the Conservation Strategy and recovery actions being developed for the California tiger salamander, Burke’s goldfields, Sonoma sunshine, Sebastopol meadowfoam, and many-flowered Navarretia.

2 HUD has designated the Certifying Officer as its representative.
ES26. Sightings of any listed or sensitive species should be reported to the California Natural Diversity Database of the California Department of Fish and Game. A copy of the reporting form and a topographic map clearly marked with the location where the individuals were observed should also be provided to the Service.

ES27. The applicant shall comply with all of the Conditions of Approval contained within the Incidental Take Permit (2081-2015-025-03 Crossroads Project) issued by the California Department of Fish and Wildlife dated January 21, 2016 (see Appendix D).

Entitlements

Z1. The project is subject to joint design review by the City of Santa Rosa and the County of Sonoma.

Z2. Comply with all stipulations set forth in in Santa Rosa City Council Resolution No. 27696, granting the Utility Certificate. (Appendix G)

Geotechnical


Noise

N1. Limit significant noise-generating construction activities, including truck traffic coming to and from the site for any purpose, to daytime, Monday through Saturday, non-holiday hours (7:00 AM to 6:00 PM).

N2. Properly muffle and maintain all construction equipment powered by internal combustion engines.

N3. Prohibit unnecessary idling of internal combustion engines by limiting idling to 5 minutes, per California State idling restrictions.

N4. Locate all stationary noise-generating construction equipment, such as air compressors, as far as practical from existing nearby residences and other noise-sensitive land uses. Acoustically shield such equipment by using piles of aggregate, project trailers, other non-noise generating equipment, or with temporary portable noise barriers.

N5. Select quiet construction equipment, particularly air compressors, whenever possible. Fit motorized equipment with proper mufflers in good working order.

N6. Designate a "construction noise disturbance coordinator" to be responsible for responding to any local complaints about construction noise. The disturbance coordinator would determine the cause of the noise complaint (e.g., starting too early, bad muffler, etc.) and would require that reasonable measures to correct the problem be implemented. Conspicuously post a telephone number for the disturbance coordinator at the construction site and include it in the notice sent to neighbors regarding the construction schedule. (The project sponsor should be responsible for designating a construction noise disturbance coordinator and posting the phone number and providing construction schedule notices).

Sidewalks

S1. Existing pedestrian sidewalks and crosswalks shall not be obstructed during construction by temporary fences, soil, construction debris or any other dangerous obstruction.

Storm Water

SW1. The project is subject to the National Pollutant Discharge Elimination System (NPDES) requirements as set by the Regional Water Quality Control Board (RWQCB). Obtain coverage under the state Water Resource Control Board’s General Construction Permit (General Permit) and submit documentation of such to the
Grading & Storm Water Section of the Sonoma County Permit and Resource Management Department prior to issuance of any grading permit.

SW2. A drainage report for the proposed project shall be prepared by a civil engineer, registered in the State of California, be submitted with the grading and/or building permit application, and be subject to review and approval by the Grading & Storm Water Section of the Permit and Resource Management Department (PRMD). The drainage report shall include, at a minimum, a project narrative, on- and off-site hydrology maps, hydrologic calculations, hydraulic calculations, pre- and post-development analysis for all existing and proposed drainage facilities. The drainage report shall abide by and contain all applicable items in the Drainage Report Required Contents (DRN-006) handout.

SW3. Drainage improvements shall be designed by a civil engineer, registered in the State of California, and in accordance with the Sonoma County Water Agency Flood Control Design Criteria. Drainage improvements shall be shown on the grading/site plans and be submitted to the Grading & Storm Water Section of the PRMD for review and approval. Drainage improvements shall maintain off-site natural drainage patterns, limit post development storm water levels and pollutant discharges in compliance with the PRMD’s best management practices guide, and abide by the standards and provisions of Chapters 11 & 11A of the Sonoma County Code and all other relevant laws and regulations. Drainage improvements shall not adversely affect adjacent properties or drainage systems.

SW4. The project is subject to the Standard urban Storm Water Mitigation Plan (SUSMP) guidelines. Measures to mitigate the project impacts to the quality of post-construction storm water discharges from the site shall be incorporated into the drainage design of the project. A final SUSMP shall be submitted with the grading and/or building permit application, and be subject to review and approval by the Grading & Storm Water Section of the PRMD prior to the issuance of any grading or building permits.

SW5. Polluted runoff from waste receptacles and dumpster areas shall not be allowed to drain directly to the storm drain system, waterway(s) or adjacent lands.

SW6. Appropriate Best Management Practices shall be implemented to effectively minimize and prevent polluted storm water discharges.

SW7. Storm drain easements shall be shown and noted on the grading/site plans.

SW8. Because some storm water runoff from the site will enter into the public storm drain which ultimately drains to Roseland Creek, storm drain inlets and catch basins shall be appropriately stenciled with the words “No Dumping. Drains to Creek”.

SW9. The project is subject to the applicable provisions of the Sonoma County Water Efficient Landscape Ordinance (WELO) adopted on December 15, 2009. A landscape plan check shall be required prior to commencing and construction on a landscape project subject to the provisions of the Sonoma County WELO. All project landscaping must be in conformance with the requirements of the Sonoma County WELO (Sonoma County Code of Ordinances, Chapter 7D3-7).

SW10. As part of the grading plans, the applicant shall include an erosion prevention/sediment control plan which clearly shows best management practices to be implemented, limits of disturbed areas, vegetated areas to be preserved, pertinent details, notes, and specifications to prevent damages and minimize adverse impacts to the environment. Tracking of soil or construction debris into the public right-of-way shall be prohibited. Runoff containing concrete waste or by-products shall not be allowed to drain to the storm drain system, waterway(s), or adjacent lands. The erosion prevention/sediment control plan shall abide by and contain all applicable items in the Grading Permit Required Application Contents (GRD-004) handout.

SW11. The project is located within the Flood Prone Urban Area (FPUA). No fill shall be placed within the FPUA, unless an engineering analysis demonstrates that no adverse impact to drainage within the FPUA will result from the fill placement and related improvements.
Transportation/Traffic

TR1. Note on Improvement Plans: “New construction on the parcels associated with this approval is subject to payment of a development fee (Traffic Mitigation Fee) before issuance of any building permits, as required by Section 26, Article 98 of the Sonoma County Code.”

TR2. Project plans shall reflect conformance with Sonoma County Fire and Emergency Service Department’s Fire Safe Standards and the Santa Rosa Fire Department’s General Conditions applicable to this project.

TR3. The project must meet parking requirements laid out in Sonoma County Zoning Code Chapter 26 Article 86 unless an incentive is granted under 65915 to provide a portion of the required parking spaces on the Liana Drive extension, as shown on the site plan dated February 9, 2011.

TR4. The project requires bicycle parking be provided at a ratio of ten percent of the provided automobile parking, equally distributed throughout the development. Design Review plans shall indicate the locations and sizes of bicycle parking areas.

TR5. The project applicant shall coordinate with the School District and the Department of Transportation and Public Works and construct a sidewalk along the development’s Burbank Avenue frontage to connect to the County’s asphalt pathway which will extend north to the new school (Roseland Creek Elementary School) and south to the existing improved pedestrian crosswalk at Hearn Avenue.

Valley Oak Habitat

The property is within the Valley Oak Habitat Combining District (VOH), and all grading and development of the site is subject to the Sonoma County Tree Protection Ordinance. The projects grading and landscape plans shall detail all tree protection implementation measures. For preserved trees:

VO1. Plastic or chain link tree protection fencing should be installed at the driplines of trees to be preserved, or the outer edge of the dripline of groups of trees to be preserved.

VO2. Trees to be preserved shall be clearly marked prior to demolition or site grading.

VO3. A pre-construction meeting with the tree service to perform pruning and the project arborist will be required to specify the extent and specifics of pruning. Pruning should be the minimum necessary for hazard reduction or necessary access, structural training and crown restoration. It should be done by trained, qualified tree workers according to ISA Pruning Guidelines.

VO4. If grading or trenching for utilities or draining must occur within the driplines of protected trees, the project arborist should be contacted to provide monitoring during the work. Roots 2” and larger shall be preserved where they occur at a depth that lines may be installed under them. If any roots larger than 1” are encountered that cannot be preserved, they should be cut cleanly across the face of the root with a sharp saw.

VO5. Wood chip mulch generated from pruning should be spread under protected trees to serve as a permanent top dressing and mulch. It should be augmented to provide a 4” layer of mulch within the driplines of all trees to be preserved.

VO6. No parking, storage of materials, or other construction activity is to occur within driplines of trees to be preserved.

Removal of native trees requires compensatory mitigation as specified in the Ordinance:

VO7. Required tree replacement shall be as set forth in the Tree Removal Plan prepared by Carlenzoli and Associates, as modified by Design Review Committee approvals. Tree value assessment and replacement shall be consistent with the Arboreal Value Chart in the Sonoma County Tree Protection and Replacement Ordinance (Ord. #4014). Any combination of 15 gallon and 24” box trees may be used at the ratio of 1 arboreal value point = 2 – 15 gallon trees and 2 points = 1 – 24” box tree.
Water Quality

WQ2. Prior to commencement of work, the applicant must obtain a Section 401 water quality certification from the San Francisco Bay Regional Water Quality Control Board (RWQCB). The applicant shall submit a copy of the certification to the Army Corps of Engineers prior to commencement of any work.

Waste Water

WW1. Prior to and separate from the start of Improvement Plan review, the applicant shall have Improvement Plans for Sanitary Sewer design prepared by a licensed civil engineer, registered in the State of California, and designed in accordance with Sonoma County Water Agency Design and Construction Standards for Sanitation Facilities and/or City of Santa Rosa Standards, as applicable. The applicant shall submit four (4) sets of Improvement Plans for sanitary sewer design, (blueline or blackline, 24 inch by 36 inch in size), one (1) copy of the Conditions of Approval and Plan Checking fees, to the Sanitation Section of the PRMD for those sections within County review jurisdiction. The sanitary sewer design shall include “plan and profile” diagrams of the proposed sewer, in addition to all other requirements of the sewer design standards.
Source Documentation
May 2016

1. Association of Bay Area Governments (ABAG), Metropolitan Transportation Commission (MTC), Bay Area Air Quality Management District (BAAQMD), and Bay Conservation and Development Commission (BCDC). Final Plan Bay Area. Adopted July 18, 2013.


17. Hazel Mitigation Preserve, LLC. *Bill of Sale & Payment Receipt: 0.20 Acre of Wetland Creation Credits.*
Greenbrae, CA: s.n., June 1, 2006 and June 2, 2006. Army Corps Number: 22495N.


http://cfpub.epa.gov/safewater/sourcewater/sourcewater.cfm?action=whereyoulive&view=result&datatype=state&CRSearch=California#contact2.


23. U.S. Fish & Wildlife Service and the California Department of Fish & Game. *Letter to Mr. Jeffrey Kolin, City Manager, City of Santa Rosa.* Sacramento, Yountville: s.n., June 29, 2005.


25. Hazel Mitigation Preserve, LLC. *Bill of Sale & Payment Receipt: 10.00 Acres of California Tiger Salamander Credits.* Greenbrae, CA: s.n., June 1, 2006 and June 2, 2006. Army Corps Number: 22495N.


33. —. *Santa Rosa General Plan 2035, Figure 12-2 Noise Contours.* Santa Rosa, CA: s.n., Adopted November 3, 2009.


37. —. *Environmental Site Assessment, Phase I Investigation, 1900 & 2030 Burbank Avenue, Santa Rosa, California, APN 125-421-018 & 019*. Santa Rosa, CA : s.n., February 26, 2002.

38. —. *All Appropriate Inquiry - Phase 1 Environmental Site Assessment, 1990 & 2030 Burbank Avenue, Santa Rosa, CA 95407*. Santa Rosa, CA : s.n., September 23, 2010.


52. Burbank Housing Development Corporation. *Sonoma County Community Development Commission Funding Application - Crossroads*. 

Crossroads Affordable Housing Project
1990-2030 Burbank Avenue, Santa Rosa, California
May 2016


55. **Lauderbach, Tom.** *Project Manager, Burbank Housing Corporation.* October 19, 2010.


57. **Sutter Santa Rosa Regional Hospital.** *Sutter Health.* [Online] [Cited: May 3, 2016.]
http://www.suttersantarosa.org/.

58. **Kaiser Permanente.** Kaiser Permanente Canta Rosa Medical Center and Medical Offices. [Online] [Cited: May 3, 2016.] kaiserpermanente.org.


60. **City of Santa Rosa.** *General Plan, Public Services and Facilities Element.* 2035 Adopted November 3, 2009.

http://ci.santa-rosa.ca.us/departments/fire/services/fire_operations/ems/Pages/default.aspx.

62. **City of Santa Rosa.** Recreation, Parks and Community Services. [Online] [Cited: October 18, 2010.]


Appendix A – Historic Preservation


October 12, 2010

Gary Tabbert
Community Development Associate
Sonoma County Community Development Commission
Housing Authority/ Redevelopment Agency
1440 Guerneville Road
Santa Rosa, CA 95403-4107

Dear Mr. Tabbert:

Re: Crossroads Affordable Housing Project located at 1980-2010 Burbank Avenue, Santa Rosa

Thank you for forwarding the above referenced undertaking to our office for review and comment pursuant to Section 106 of the National Historic Preservation Act and its implementing regulations found at 36 CFR Part 800. The regulations and advisory material can be found at www.achp.gov.

Undertaking
You have informed us that the Sonoma County Community Development Commission intends to use HOME funding from the U.S. Department of Housing and Urban Development for the development of an affordable multi-family housing complex on two vacant parcels in unincorporated Sonoma County.

Area of Potential Effects (APE)
The APE, as defined in the Historic & Cultural Resources Evaluation prepared by you by AEM Consulting, LLC, is defined as the subject site and seven of the surrounding and facing parcels.

Identification of Historic Properties
You have identified five properties within the APE that are 50 years of age or older and have, based on the documentation prepared by AEM Consulting, LLC, determined that none of these properties are eligible for listing in the National Register of Historic Places. We concur with your determination that the properties listed below are not eligible for the National Register:

- 2050 Burbank Avenue (1942)
- 2021 Burbank Avenue (1942)
- 1967 Burbank Avenue (1917)
- 1870 Burbank Avenue (1946)
- 1850 Burbank Avenue (1949)
- 1845 Burbank Avenue (1952)
Finding of Effects
You have determined that there are no National Register eligible properties within the undertaking’s APE and, therefore, the undertaking will have no effect on historic properties. We do not object to this finding.

Your consideration of historic properties in the project planning process is appreciated. If you have any questions, please do not hesitate to contact Shannon Lauchner, State Historian II, with the Local Government Unit at (916)445-7013 or by email at slauchner@parks.ca.gov.

Sincerely,

Milford Wayne Donaldson, FAIA
State Historic Preservation Officer
September 9, 2010

Mr. Milford Wayne Donaldson, FAIA
State of California
Office of Historic Preservation
Department of Parks & Recreation
1725 23rd Street, Suite 100
Sacramento, CA 95816

Re: Section 106 Consultation
Crossroads Affordable Housing Project, 1980-2010 Burbank Avenue, Santa Rosa, CA
APN: 125-421-018 and 125-421-019

Dear Mr. Donaldson,

This letter and its accompanying documents is a request for consultation, pursuant to Section 106 of the National Historic Preservation Act, and specifically to 36 CFR 800.4, regarding the identification of historic resources within the project’s Area of Potential Effect (APE), and your concurrence in a finding of no adverse effect (36 CFR 800.5(a)(3)) for the undertaking to construct the Crossroads affordable housing project. The Sonoma County Community Development Commission is the lead agency for this consultation.

Undertaking

The proposed Crossroads affordable housing project consists of two parcels located on Burbank Avenue in unincorporated Sonoma County. The parcels combined are approximately 5 acres. Burbank Housing Corporation is proposing to develop a 79-unit apartment complex.

The Undertaking will rely on several funding sources including approximately $400,000 in HOME funds from the US Department of Housing and Urban Development (HUD).

Area of Potential Effects

Enclosed are materials that identify and evaluate historic properties within the Area of Potential Effects of this Undertaking under Section 106 of the Historic Preservation Act and its implementing regulations at 36 CFR Part 800. The Sonoma County Community Development Commission contracted AEM Consulting to prepare the federal
environmental review under the National Environmental Policy Act and 24 CFR Part 58, HUD Environmental Review Regulations, prior to use of HUD funds. AEM Consulting will be pursuing the related federal consultations necessary for the project or behalf of the Sonoma County Community Development Commission.

An archeological field investigation was done for the proposed project as the site has never been developed. A search of the California Historic Resources Information System was done as well as contact with the Native American Heritage Commission was made.

**Determination of Effect**

No National Register listed or eligible historic properties were identified with the APE; therefore, staff has made the determination that the proposed Undertaking will not have an adverse effect on historic properties. Staff is seeking your concurrence on this finding.

We appreciate your review and consideration of this item. Please provide your feedback as soon as possible. If you have any questions, please contact our consulting environmental firm, AEM Consulting LLC at (707) 523-3710 or myself at (707) 565-7542.

Respectfully,

Gary Tabbert
Community Development Associate

Enclosures

HISTORIC & CULTURAL RESOURCES EVALUATION

HISTORIC RESOURCES EVALUATION FOR SECTION 106 REVIEW

CROSSROADS AFFORDABLE HOUSING PROJECT

1980-2010 Burbank Avenue
Santa Rosa, California 95407

SEPTEMBER 2010

AEM CONSULTING LLC

55 Saint James Drive
Santa Rosa, California 95403
(707) 523-3710
BACKGROUND

Burbank Housing Development Corporation proposes to use funding from the U.S. Department of Housing and Urban Development (HUD) as administered by the Sonoma County Community Development Commission (SCCDC) to construct a low income housing project. To secure HUD release of funds for the project, the Sonoma County Community Development Commission must provide a suitable federal Environmental Review Record to HUD prepared according to the requirements of the National Environmental Policy Act (NEPA) and HUD’s own Environmental Regulations found in 24 CFR Part 58. The appropriate level of federal environmental review in this case is an Environmental Assessment leading to a Finding of No Significant Impact (FONSI). Both the Environmental Assessment and FONSI must be prepared for signature by the Certifying Officer for the Sonoma County Community Development Commission.

To achieve a FONSI, HUD requires that the Environmental Assessment demonstrate that the project complies with all applicable federal laws and regulations, including Section 106 of the National Historic Preservation Act. Regulations pertaining to Section 106 Review are found in 36 CFR Part 800.

REGULATORY CONTEXT FOR EVALUATION OF HISTORICAL AND ARCHITECTURAL SIGNIFICANCE:

Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effects of their undertakings on historic properties. The section 106 process seeks to accommodate historic preservation concerns with the needs of federal undertakings through consultation among the agency official and other interested parties, beginning at the early stages of project planning. The goal of consultation is to identify historic properties potentially affected by the undertaking, assess its effects and seek ways to avoid, minimize or mitigate any adverse effects on historic properties. To evaluate the significance of an historical resource and its integrity, the ability of a property to convey that significance, a building is evaluated according to the National Register Criteria for Evaluation. According to the guidelines of the National Register Criteria for Evaluation, the quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or

B. That are associated with the lives of persons significant in our past; or

C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That has yielded or may be likely to yield, information important in prehistory or history.

Section 106 compliance requires the Sonoma County Community Development Commission to obtain the views of the State Historic Preservation Officer (SHPO) as to whether any of the project activities could have an "adverse effect" to the setting or character-defining features of any historically significant property in the Area of Potential Effects (APE). A historically significant property is one that would be eligible for listing on the National Register of Historic Places, whether it is currently listed or not.
**PROJECT DESCRIPTION**

Burbank Housing Corporation (Burbank) has proposed the development of a new apartment community in unincorporated Sonoma County, California at 1980-2010 Burbank Avenue. The new community will include 79 units in a combination of one, two, and three bedroom units. A total of 77 units will provide long term affordable housing for very low- and low-income Sonoma County households. A total of 11 units will be HOME-Assisted units. The development includes a total of 141 parking spaces, indoor and outdoor community meeting areas, laundry and outdoor play areas.

![Conceptual Site Plan](image)

**FIGURE 1 CONCEPTUAL SITE PLAN**

The design of the buildings includes twenty one- and two-story structures housing the apartment units and a one-story Community Building. The unit mix will be 22 one-bedroom units, 24 two-bedroom units, and 33 3-bedroom units, or a total of 79. Parking will consist of 75 spaces of on-site standard spaces, 31 on-site compact parking and 35 on-street parking spaces, or a total of 141 parking spaces. The project plans include the construction of the Liana Drive extension to connect Burbank Avenue to the truncated street Liana Drive adjacent to the property. (Please see attached Plans & Elevations for more details).
CROSSROADS APARTMENTS
1980 & 2010 BURBANK AVENUE, SANTA ROSA, CALIFORNIA
A BURBANK HOUSING AUTHORITY CORPORATION CORPORATION

BUILDING TYPE "A"
CONCEPTUAL ELEVATIONS

FIGURE 2 BUILDING TYPE "A" CONCEPTUAL ELEVATIONS

(Please see attached Plans & Elevations for more details).
Figure 3 Concept Landscaping Plan

(Please see attached Plans & Elevations for more details).
PROJECT LOCATION

Map 1 Region

Map 2 Detail

Crossroads Affordable Housing Project
1980-2010 Burbank Avenue, Santa Rosa CA 95407
Historic Evaluation for Section 106 Review
PROJECT LOCATION

MAP 3 ASSESSOR'S PARCEL MAP

MAP 4 AERIAL VIEW

Crossroads Affordable Housing Project
1980-2010 Burbank Avenue, Santa Rosa CA 95407
Historic Evaluation for Section 106 Review
SITE CONDITIONS/CONTEXT

Santa Rosa is the county seat of Sonoma County, California, United States. As of January 1, 2008, the population of Santa Rosa was approximately 161,496 residents. Santa Rosa is the largest city in California’s Wine Country and fifth largest city in the San Francisco Bay Area, after San Jose, San Francisco, Oakland, and Fremont. Santa Rosa’s metropolitan statistical area has a population of 486,630, making it the 12th largest in California and the 105th largest in the United States. According to the United States Census Bureau, the city has a total area of 40.37 square miles; of which 40.13 square miles is land and 0.25 square miles (0.62%) is water.

The city is part of the North Bay region, which includes such cities as Sonoma, Healdsburg and Sebastopol. It lies along the US Route 101 corridor, approximately 55 miles north of San Francisco, via the Golden Gate Bridge. Santa Rosa lies on the Santa Rosa Plain; its eastern extremities stretch into the Valley of the Moon, and the Sonoma Creek watershed known as the Sonoma Valley, while its western edge lies in the Laguna de Santa Rosa catchment basin.

The study area is southwest of Santa Rosa in the Roseland area of unincorporated Sonoma County. The Roseland area is composed of varied land uses from rural residential to high density residential to industrial and commercial operations. The general character of the Burbank Avenue neighborhood is one of a post-World War II, residential subdivision. Many of the houses were constructed circa 1940 to 1955, and are simple, frame buildings. The dominant architectural style is the Minimal Traditional house. There are a few early 20th century homes along Burbank Avenue, and some of these have outbuildings typical of the small, family farms of the early 1900s. A few newer houses are also present.

The project site is composed of two adjacent parcels (APNs 125-421-018 and 125-421-019) of vacant land. The site itself is relatively flat and lies approximately 139 feet above mean sea level. There are no roads on the site. There are no creeks or waterways on the site.

SITE SPECIFIC CHARACTERISTICS

Each parcel is 2.5-acres in size for a total of 5 acres. The site is currently zoned Rural Residential (RR4) and both parcels are vacant and have never been developed. There are no structures on the site (see Map 4). The project requires a zoning overlay to allow the density required by the project.

AREA OF POTENTIAL EFFECTS

The Area of Potential Effects (APE) includes the subject site (APE #1 and #2) and 7 of the surrounding and facing properties, or 9 properties in all. The APE Map shows all in greater detail. Results of an eligibility evaluation of the APE Properties are summarized on Table 1, which follows.
**AREA OF POTENTIAL EFFECTS**

**MAP 5 AREA OF POTENTIAL EFFECTS**

**EVALUATION**

The site consists of two vacant parcels located in southwest Sonoma County. The site is relatively flat and is approximately 139 feet above sea level. The subject site is depicted on the APE Map and the Summary Table as APE #1 and #2. The site is vacant and has never been developed.

**CALIFORNIA HISTORIC RESOURCES INFORMATION SYSTEM - RECORDS SEARCH**

In April of 2002, a Cultural Resources Survey was conducted by Tom Origer & Associates for the annexation of the entire Burbank Avenue area which included the two subject parcels. The survey was performed in accordance with regulations for Section 106 of the National Environmental Policy Act. Pursuant to Section 106, the goals of the study were to: 1) identify all historic properties within the project area; 2) provide an evaluation of the significance of identified properties; 3) determine whether effects could arise from project activities; and 4) offer recommendations designed to protect the value of historic properties.

As part of the cultural resources survey of the annexation, a records search of the California Historic Resources Information System at Sonoma State University was conducted. Archival research indicated that there are no recorded archeological sites and no ethnographic sites reported within the study area.

**NATIVE AMERICAN CONTACTS**

In March 2002, the Native American Heritage Commission was contacted by Tom Origer & Associates regarding sacred lands on or near the project vicinity. The Native American Heritage Commission replied to them on March 20, 2002 that a records search did not indicate the presence of Native American cultural resources within on-half mile of the proposed project site. A list of tribal contacts

Crossroads Affordable Housing Project
1980-2010 Burbank Avenue, Santa Rosa CA 95407
Historic Evaluation for Section 106 Review

[AEW Consulting logo]
was provided by the Commission and subsequently, Tom Origer & Associates sent a letter to each contact regarding the project and requesting information from their respective communities regarding sacred lands or other cultural sites within the study area that might be impacted by project activities. Follow-up telephone calls were made to the others and no project-specific information was received.

**Area of Potential Effects**

APEs #1 & #2 are the subject properties. Both parcels are vacant and contain no structures.

The two parcels proposed for development by Burbank Housing Development Corporation were surveyed by Tom Origer & Associates for the presence of archaeological materials. In addition, buildings on surrounding parcels were photographed and assessments were made of each property's eligibility for inclusion on the National Register of Historic Places.

The general character of the Burbank Avenue neighborhood is one of a post-World War II, residential subdivision. Many of the houses were constructed circa 1940 to 1955, and are simple, frame buildings. The dominant architectural style is the Minimal Traditional house. There are a few early 20th century homes along Burbank Avenue, and some of these have outbuildings typical of the small, family farms of the early 1900s. A few newer houses are also present.

The Burbank Housing parcels (APE #1 & #2) have no standing buildings or structures. A debris pile with what appears to be the remains of a wooden outbuilding was noted along the northern edge of the north parcel. Vegetation consists of annual and perennial grasses and forbs with a few fruit trees toward the east ends of the parcels. These two parcels are surrounded by single family residential lots with houses that date primarily to the end of World War II.

There are seven residential parcels adjacent to the Burbank parcels. These parcels contain a mix of house styles and vernacular buildings ranging in age from 15 to 85 years. Some of the older homes have been altered. Most notably, the 1917 house at 1967 Burbank Avenue (APE #6), opposite the Burbank Housing parcels, has had new windows installed and the roofline has been raised to a level inappropriate for this style of house. The residence at 1850 Burbank Avenue (APE #9) has had two additions to the east end, giving this home a Ranch-style appearance. None of the buildings adjacent to the Burbank parcels appear eligible for inclusion on the National Register of Historic Places or the California Register of Historical Resources.

APE #3 is a three-bedroom, two-bath single family residence built in 1987.

APE #4 is a one-bedroom, one-bath single family residence built in 1942.

APE #5 is a three-bedroom, two-bath single family residence built in 1942.

APE #6 is a four-bedroom, two-bath single family residence built in 1917. The property also contains a granny unit.

APE #7 is a two-bedroom, two-bath single family residence built in 1952.

APE #8 is a three-bedroom, two-bath single family residence built in 1949.

APE #9 is a four-bedroom, two-bath single family residence built in 1946. The property also contains a granny unit.

APE #10 is a three-bedroom, two-bath single family residence built in 1990.
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<th>APE #</th>
<th>APN</th>
<th>Address</th>
<th>Owner</th>
<th>Land Use</th>
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<td>#1</td>
<td>125-421-019</td>
<td>(Subject Property) 1990 Burbank Avenue Santa Rosa, CA 95407</td>
<td>Burbank Housing Development Corporation</td>
<td>Vacant Residential Lot/ Undeveloped (0000)</td>
<td>N/A</td>
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<td>#2</td>
<td>125-421-018</td>
<td>(Subject Property) 2030 Burbank Avenue Santa Rosa, CA 95407</td>
<td>Burbank Housing Development Corporation</td>
<td>Vacant Residential Lot/ Undeveloped (0000)</td>
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<td>125-421-013</td>
<td>830 Liana Drive</td>
<td>Donald R. &amp; Mary L. Cook</td>
<td>Single Family Dwelling (0010)</td>
<td>1987</td>
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<td>#4</td>
<td>125-421-014</td>
<td>2050 Burbank Avenue</td>
<td>Paul R. &amp; Judith A. Pesce</td>
<td>Single Family Dwelling (0010)</td>
<td>1942</td>
<td>6Y</td>
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Historic Evaluation for Section 106 Review
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<td>#5</td>
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<td>2021 Burbank Avenue</td>
<td>Rae Sherwood</td>
<td>Single Family Dwelling (0010)</td>
<td>1942</td>
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<td>#6</td>
<td>125-471-014</td>
<td>1967 Burbank Avenue</td>
<td>Ismael Soto Lugo</td>
<td>Single Family Dwelling w/Granny Unit (0023)</td>
<td>1917</td>
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<td>1845 Burbank Avenue</td>
<td>Richard P. &amp; Lorraine A. Papp</td>
<td>Single Family Dwelling (0010)</td>
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<td>#8</td>
<td>125-421-003</td>
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<td>Walter D. Murphy III</td>
<td>Single Family Dwelling (0010)</td>
<td>1949</td>
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Historic Evaluation for Section 106 Review
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<td>#9</td>
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<td>1850 Burbank Avenue</td>
<td>Ramiro R. Ortiz</td>
<td>Single Family Dwelling w/Granny Unit (0023)</td>
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<td>#10</td>
<td>125-421-020</td>
<td>1840 Burbank Avenue</td>
<td>William J. &amp; Teanna L. Boriolo</td>
<td>Single Family Dwelling (0010)</td>
<td>1990</td>
<td>6Y</td>
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*Note: 6Y denotes the property has not been evaluated for the California Register or Local Listing.*
CONCLUSION

A records search from the Northwest Information Center found no information regarding pre-historic or cultural resources on the site. Native American Tribes were contacted but have not responded or expressed any interest in the project. A thorough cultural resources survey was performed for the subject site and surrounding properties. This study included archival research at the Northwest Information Center, Sonoma State University (NWIC File No. 01-1322), and examination of the library and files of Tom Origer & Associates. Information regarding the presence of sacred sites or other cultural use sites was sought from the Native American Heritage Commission and local Native American organizations. The survey makes the following conclusion regarding known resources:

"None of the buildings within the parcels proposed for development appear eligible for inclusion on the National Register of Historic Places or the California Register of Historical Resources as separate properties. In addition, none of the buildings on properties adjoining those parcels to be developed by Burbank Housing Development Corporation appear eligible for listing on either of the registers listed above. These buildings were examined in compliance with Section 106 of the National Environmental Policy Act (36 CFR 800). No further research is recommended for these buildings."

RECOMMENDED DETERMINATION

None of the adjacent properties are historic buildings, or officially designated as landmarks nor are they listed on the National Register of Historic Places. None of the structures in the Area of Potential Effects appear to be eligible for listing in the national Register of Historic Places.

1. If during project construction activities previously unidentified archeological resources are discovered, all project activities in the immediate vicinity of the discovery would be halted and the procedures of 36 CFR Part 800.13(b) and (c) would be followed. [Paragraph I.A. Inadvertent Archeological Resource Discovery]
2. Upon discovery of Native American human remains and associated or unassociated funerary objects, the City shall treat them in accordance with provisions of California Public Resources Code Section 5097.94, 5097.98, and 5097.99 and the California Health and Safety Code Section 7050.5 or as provided in federal implementing regulations found in 36 CFR 800.13(b)[2]. [Paragraph I.B. Treatment of Native American human remains and cultural properties]
3. For any archeological resources discovered during the excavation and construction phase, all project activities in the immediate vicinity of the discovery would halt. Procedures of 36 CFR Part 800.13(b) and (c); PRC Sections 5097.94, 5097.98 and 5097.99; and the California Health and Safety Code Section 7050.5 would be followed, including calling an archaeologist or paleontologist to evaluate the materials.
4. If paleontological resources were found during site excavation and construction, work would be halted until a paleontologist could evaluate the nature and significance of the resources. If significant resources were confirmed, the OHP and the California Department of State Parks would be contacted for further guidance on documentation and preservation. Protocol for the discovery of paleontological resources during construction would be the same as that for archaeological resources: project activities in the immediate vicinity of the discovery would halt, and procedures of 36 CFR Part 800.13(b) and (c); PRC Sections 5097.94, 5097.98 and 5097.99; and the California Health and Safety Code Section 7050.5 would be followed, including calling an archaeologist or paleontologist to evaluate the materials.

For purposes of Section 106 Review of this undertaking, AEM Consulting recommends that the Agency Official agree with the Area of Potential Effects and determine that there are no historic properties in the Area of Potential...
Effects. The reason is there are no properties eligible for the National Register in the Area of Potential Effects of this undertaking.

ATTACHMENTS:


CROSSROADS APARTMENTS
1980 & 2010 BURBANK AVENUE, SANTA ROSA, CALIFORNIA
A BURBANK HOUSING DEVELOPMENT CORPORATION COMMUNITY

BUILDING TYPE "G"
CONCEPTUAL ELEVATIONS

SCALE: 3/32" = 1'-0"

TIERNEY/FIGUEIREDO
ARCHITECTS AIA
A Cultural Resources Survey for the
Proposed Burbank Avenue Annexation
and Development Project
Santa Rosa, Sonoma County, California

Prepared by:

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and
Vicki Beard, M.A.

Tom Origer & Associates
Post Office Box 1531
Rohnert Park, California 94927
(707) 792-2797

Requested by:

Frank Denney
1400 North Dutton Avenue, Suite 1
Santa Rosa, California 95401-4643

April 1, 2002
ABSTRACT

Tom Origer & Associates conducted a cultural resources survey for a proposed annexation and development project along Burbank Avenue between Hearne Avenue and Hughes Avenue, southwest Santa Rosa, Sonoma County, California. Frank Denney, Cobblestone Homes, Inc., requested and authorized the study on behalf of three companies (Burbank Housing Development Corporation, Cobblestone Homes, and Schellinger Homes) proposing to develop portions of the annexation area.

This study included archival research at the Northwest Information Center, Sonoma State University (NWIC File No. 01-1322), examination of the library and files of Tom Origer & Associates. Information regarding the presence of sacred sites or other cultural use sites was sought from the Native American Heritage Commission and local Native American organizations. The entire annexation area was included in the archival portion of this study. A field inspection of the six parcels proposed for development was also completed. Two parcels, which are planned for development by Burbank Housing Development Corporation, are subject to Section 106 of the National Environmental Policy Act, because development of these parcels is expected to be funded in part with federal money. The four remaining parcels are subject to the California Environmental Quality Act.

Documentation pertaining to this study is on file at the offices of Tom Origer & Associates (File No. 02-23S).

Synopsis

Project: Burbank Avenue Annexation and Development
Location: Burbank Avenue, southwest Santa Rosa
Quadrangle: Santa Rosa 7.5' series
Study Type: Intensive survey
Scope: Approximately 7.75 acres
Finds: Possible cemetery location
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INTRODUCTION

Tom Origer & Associates conducted a cultural resources survey for a proposed annexation and development project along Burbank Avenue, southwest Santa Rosa, Sonoma County, California (Figure 1). Frank Denney, Cobblestone Homes, Inc., requested and authorized the study on behalf of three companies (Burbank Housing, Cobblestone Homes, and Schellinger Homes) proposing to develop six parcels within the annexation area. Documentation pertaining to this study is on file at Tom Origer & Associates (File No. 02-23S).

REGULATORY CONTEXT

Two regulatory frameworks for cultural resources apply to this project. Section 106 of the National Environmental Policy Act applies to those portions of the project that will receive federal funding. The California Environmental Quality Act applies to the remainder of the project. These two sets of regulations are similar in intent with regard to cultural resources, as can be seen from the brief description of both sets of regulations that follows.

The California Environmental Quality Act (CEQA) requires that cultural resources be considered during the environmental review process. This is accomplished by an inventory of resources within a study area and by assessing the potential that cultural resources could be affected by development.

Figure 1. Project vicinity (adapted from the 1970 Santa Rosa 1:250,000-scale USGS map).
This cultural resources survey was designed to satisfy environmental issues specified in the CEQA and its guidelines (Title 14 CCR §15064.5) by: (1) identifying all cultural resources within the project area; (2) offering a preliminary significance evaluation of the identified cultural resources; (3) assessing resource vulnerability to effects that could arise from project activities; and (4) offering suggestions designed to protect resource integrity, as warranted.

In addition, because it is anticipated that federal funding will be involved in the development of the two parcels (APN 125-421-018 and 125-421-019) to be developed by Burbank Housing Development, Inc., regulations for Section 106 of the National Environmental Policy Act (36 CFR 800), were followed for those two parcels.

Under Section 106, when a federal agency is involved in an undertaking the agency must take into account the effects of the undertaking on historic properties (36CFR Part 800). Compliance with Section 106 requires that agencies make an effort to identify historic properties that might be affected by a project, and gather information to evaluate their eligibility for inclusion on the National Register of Historic Places (National Register).

If historic resources are identified within a project area, they are evaluated using the criteria for inclusion on the National Register set forth in 36CFR60. For National Register purposes, the age requirement is generally 50 years; however, resources that are more recent could be eligible for listing on the National Register.

Pursuant to Section 106, the goals of this study were to: 1) identify all historic properties within the project area; 2) provide an evaluation of the significance of identified properties; 3) determine whether effects could arise from project activities; and 4) offer recommendations designed to protect the value of historic properties.

**Resource Definitions**

Cultural resources are classified by the State Office of Historic Preservation (OHP) and the National Register as sites, buildings, structures, objects, and districts significant in history, architecture, engineering, archaeology, and culture, and that may be of value to the nation as a whole or important only to the community in which it is located. Each is described by OHP (1995) and by the National Park Service (NPS 1995:4-5) as follows.

**Site.** A site is the location of a significant event, a prehistoric or historic occupation or activity, or a building or structure, whether standing, ruined, or vanished, where the location itself possesses historic, cultural, or archaeological value regardless of the value of any existing structure.

**Building.** A building, such as a house, barn, church, hotel, or similar construction, is created principally to shelter any form of human activity. "Building" may also be used to refer to a historically and functionally related unit, such as a courthouse and jail, or a house and barn.
Structure. The term "structure" is used to distinguish from buildings those functional constructions made usually for purposes other than creating human shelter.

Object. The term "object" is used to distinguish from buildings and structures those constructions that are primarily artistic in nature or are relatively small in scale and simply constructed. Although it may be, by nature or design, movable, an object is associated with a specific setting or environment.

District. A district possesses a significant concentration, linkage, or continuity of sites, buildings, structures, or objects united historically or aesthetically by plan or physical development.

Significance Criteria

When a project might affect a cultural resource, the project proponent is required to conduct an assessment to determine whether the effect may be one that is significant. Consequently, it is necessary to determine the importance of resources that could be affected. The importance of a resource is measured in terms of criteria for inclusion on the California Register of Historical Resources (Public Resources Code §5024.1; Title 14 CCR, §4850.3) or in terms of National Register criteria put forth in 36CFR60.

A resource may be important if it meets any one of the criteria below, or if it is already listed on the National Register of Historic Places, the California Register of Historical Resources, or a local register of historical resources. The two sets of criteria (California Register and National Register) are essentially the same. The wording for the federal regulation is provided below, as it includes wording regarding the integrity of the resource.

The quality of significance is present in properties that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

A. That are associated with events that have made a significant contribution to the broad patterns of our history; or

B. That are associated with the lives of persons significant in our past; or

C. That embody the distinct characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

D. That have yielded or may be likely to yield, information important in prehistory or history.
Additionally, the OHP advocates that all historical resources over 45 years old be recorded for inclusion in the OHP filing system (OHP 1995:2), although professional judgment is urged in determining whether a resource warrants documentation.

**PROJECT SETTING**

**Study Location and Description**

The study area is located along Burbank Avenue, southwest Santa Rosa, Sonoma County, as shown on the Santa Rosa, California 7.5’ USGS topographic quadrangle (Figure 2). The proposed annexation will include 69 parcels between Hearn Avenue on the south, and Hughes Avenue to the north (Figure 3). The annexation area ends approximately 90 feet (at the northeast corner) and 210 feet (at the northwest corner) south of Hughes Avenue. Within the annexation area are six parcels proposed for development (see Table 1).

A seasonal creek flows through the northern portion of the project area. Soils within the study area belong to the Clear Lake, Wright, Yolo, and Zamora series (Miller 1972:Sheet 81). Clear Lake soils are poorly drained. The three other soil series vary from somewhat poorly drained to well-drained and in an uncultivated state mainly support the growth of annual and perennial grasses, forbs, and scattered oaks. Historically, parcels comprised of Clear Lake and Wright soils were used for dryland and irrigated pasture, and hay crops (Miller 1972:23 and 86). Soils of the Yolo and Zamora series have been used for orchards, vineyards, and row and truck crops (Miller 1972:87 and 90).

The project and its surroundings include seasonal freshwater sources and a mosaic of moderately well-drained soils that could have supported a variety of plants that in turn could have served as food and cover for animals. The presence of these natural attributes suggests that the study area could have been a desirable place for prehistoric occupants of the region to live or gather resources.

**Cultural Setting**

Archaeological evidence indicates that human occupation of California began at least 12,000 years ago (Fredrickson 1984:506). Early occupants appear to have had an economy based largely on hunting, with limited exchange, and social structures based on extended family units. Later, milling technology and an inferred acorn economy were introduced. This diversification of economy appears to be coeval with the development of sedentism and population growth and expansion. Sociopolitical complexity and status distinctions based on wealth are also observable in the archaeological record, as evidenced by an increased range and distribution of trade goods (e.g., shell beads, obsidian tool stone), which are possible indicators of both status and increasingly complex exchange systems.
Figure 2. Study location (adapted from the 1994 Santa Rosa 7.5' USGS map).
At the time of European settlement, the study area was situated in territory controlled by the Southern Pomo (McLendon and Oswalt 1978). The Southern Pomo were hunter-gatherers who lived in rich environments with large carrying capacities that allowed for dense populations with complex social structures (Barrett 1908; Kroeber 1925). They settled in large, permanent villages about which were distributed seasonal camps and task-specific sites. Primary village sites were occupied continually throughout the year and other sites were visited in order to procure particular resources that were especially abundant or available only during certain seasons. Sites often were situated near freshwater sources and in ecotones where plant life and animal life were diverse and abundant.

For more information about the Pomo see Bean and Theodoratus (1978), Powers (1877), and Stewart (1943).

STUDY PROCEDURES AND FINDINGS

Native American Contact

Information regarding the presence of sacred sites or other cultural use sites was sought from the Native American Heritage Commission and local Native American organizations and individuals. Below is a list of groups and individuals contacted about the project. Copies of correspondence with these groups and a log of contact efforts are appended to this report (Appendix A).

Native American Heritage Commission
Cloverdale Rancheria
Dry Creek Rancheria of Pomo Indians
Federated Indians of Graton Rancheria
Lytton Indian Community of Pomo Indians
Ya-Ka-Ama Indian Educational Center
Dawn Getchell, Porno/Coast Miwok
Kathleen Smith, Porno/Coast Miwok

A letter from the Native American Heritage Commission, dated March 20, 2002, indicated that they have no record of sacred lands within or near the APE. Follow-up telephone calls were made to the others and no project-specific information was received.

Archival Study Procedures

Archival research was conducted on the entire proposed annexation area, and included inspection of county records and examination of the library and project files at Tom Origer & Associates. A review (NWIC File No. 01-1322) was completed of the archaeological site base maps and records, survey reports, and other materials on file at the Northwest Information Center (NWIC), Sonoma State University, Rohnert Park. Sources of information included but were not limited to the current listings of properties on the National Register of Historic
Places, California Historical Landmarks, California Register of Historical Resources, and California Points of Historical Interest as listed in the Office of Historic Preservation’s *Historic Property Directory* (OHP 2002).

The Office of Historic Preservation has determined that structures in excess of 45 years of age should be considered potentially important historical resources, and former building and structure locations could be potentially important historic archaeological sites. Archival research included an examination of historical maps to gain insight into the nature and extent of historical development in the general vicinity, and especially within the study area. Maps ranged from hand-drawn maps of the 1800s (e.g., General Land Office) to topographic maps issued by the United States Geological Survey (USGS) and United States Army Corps of Engineers (USACE).

In addition, ethnographic literature that describes appropriate Native American groups, county histories, and other primary and secondary sources were reviewed. Sources reviewed are listed in the "Materials Consulted" section of this report.

**Archival Study Findings**

Archival research indicated that there are no recorded archaeological sites (NWIC File No. 01-1322) and no ethnographic sites reported within the study area (Barrett 1908; Kroeber 1925; McLendon and Oswalt 1978). However, only a small portion of the study area had been subjected to prior archaeological investigation (Chavez and Hupman 1993).

Three of the six parcels proposed for development for the current project were included in the study by Chavez and Hupman (see Table 1). A single obsidian tool was identified within the annexation area, west of Burbank Avenue. This isolated item does not constitute an archaeological site, and is of no further concern.

Four archaeological studies conducted in areas adjacent to the proposed annexation identified no archaeological resources that could extend into the current study area (Hale 1986; King 1973; Loyd and Origer 1992; Origer 1976).

Dennis Harris and Susan Clarke conducted an architectural survey for the *Southwest Master Environmental Assessment* (LSA 1991) that included the current annexation area. Thirty-three properties within the current study area were listed at that time as ‘notable architectural properties’ (the pertinent pages of the property list are provided in Appendix B); however, no primary forms were submitted to the Northwest Information Center for these properties. Harris and Clarke (1991a) identified nine potential historic districts including a Burbank Avenue District, which they discuss as follows:

> Stretching for ten blocks along both sides of Burbank Avenue, this potential district may indeed contain far too many non-contributors to be viable. It also may lack architectural cohesion [Harris and Clarke 1991a:39].
The potential historic Burbank Avenue District outlined by Harris and Clarke included buildings on 18 parcels including those on the Schellinger Homes parcels at 1400 and 1780 Burbank Avenue; however, only the house at 1780 Burbank was listed as a contributor to the potential district.

In addition to buildings, the architectural survey listed one parcel as containing the T. M. Markham family plot (cemetery) dating to the 1860s (Harris and Clarke 1991a). The report lists the address of the parcel as 1400 Burbank Avenue, which is one of the Schellinger Homes parcels. No record, map, or description providing the exact location of the cemetery was provided. A general description of the location, "... on the easterly portion of the site . . ." and a relatively large circled map location were found in the Southwest Santa Rosa Area Plan Final Environmental Impact Report (EIP 1994:2-35;Figure 2.3-6).

Review of historical maps revealed that buildings constructed as early as the 1910s were within the proposed annexation area (Bowers 1867; General Land Office 1856; Thompson 1877; United States Army Corps of Engineers 1915, n.d., 1922; United States Geological Survey 1916, 1944, 1954).

**Field Survey Procedures**

Vicki Beard, M.A., completed intensive field survey of the six parcels proposed for development on March 25, 2002 (see Figure 3). Three of the parcels were subjected to archaeological survey in 1993 and were resurveyed during this study because of reported poor visibility during the previous survey (Chavez and Hupman 1993). All six proposed development parcels were examined by walking in a zigzag fashion within corridors about 10 meters wide. Surface visibility in the study area was generally poor. Thick vegetation hindered ground inspection. A hoe was used to clear small patches so that the soil could be inspected.

**Table 1.** Parcels proposed for development within the annexation area.

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Assessor's Parcel #</th>
<th>No. of Buildings</th>
<th>Year *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burbank Housing Development Corp.</td>
<td>1990 Burbank Avenue</td>
<td>125-421-018</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>2030 Burbank Avenue</td>
<td>125-421-019</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td>Cobblestone Homes, Inc.</td>
<td>1027 McMinn Avenue</td>
<td>125-252-004</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>1360 Burbank Avenue**</td>
<td>125-252-002</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td>Schellinger Homes</td>
<td>1400 Burbank Avenue**</td>
<td>125-331-001</td>
<td>1</td>
<td>1931</td>
</tr>
<tr>
<td></td>
<td>1780 Burbank Avenue**</td>
<td>125-361-003</td>
<td>3</td>
<td>1939</td>
</tr>
</tbody>
</table>

*based on records of the Sonoma County Assessor’s Office

**parcel subject to archaeological survey reported in Chavez and Hupman (1993)**
Figure 3. Surveyed Areas Within the Proposed Annexation Area
Burbank Housing Development Corporation
The two parcels proposed for development by Burbank Housing Development Corporation were surveyed for the presence of archaeological materials. In addition, buildings on surrounding parcels were photographed and assessments were made of each property’s eligibility for inclusion on the National Register of Historic Places.

Cobblestone Homes
The Cobblestone Homes parcels were examined for the presence of archaeological resources.

Schellinger Homes
The Schellinger Homes parcels were surveyed for the presence of archaeological resources, and extant structures were examined. Archival research indicated that there was a historical cemetery on the parcel at 1400 Burbank Avenue (APN 125-331-001) and particular effort was expended in trying to identify the location of the small cemetery.

Based on the results of archival research, it was anticipated that historic-period and to a lesser extent prehistoric archaeological sites could be found within the study area. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, dumps). Prehistoric archaeological site indicators expected to be found in the region include but are not limited to: obsidian and chert flakes and chipped stone tools; grinding and mashing implements such as slabs and handstones, and mortars and pestles; and locally darkened midden soils containing some of the previously listed items plus fragments of bone, shellfish, and fire affected stones.

Field Survey Findings

General Character
The general character of the Burbank Avenue neighborhood is one of a post-World War II, residential subdivision. Many of the houses were constructed circa 1940 to 1955, and are simple, frame buildings. The dominant architectural style is the Minimal Traditional house. There are a few early 20th century homes along Burbank Avenue, and some of these have outbuildings typical of the small, family farms of the early 1900s. A few newer houses are also present.

Burbank Housing Development Corporation
The Burbank Housing parcels have no standing buildings or structures. A debris pile with what appears to be the remains of a wooden outbuilding was noted along the northern edge of the north parcel. Vegetation consists of annual and perennial grasses and forbs with a few fruit trees toward the east ends of the parcels. These two parcels are surrounded by single-family residential lots with houses that date primarily to the end of World War II.

There are seven residential parcels adjacent to the Burbank parcels. These parcels contain a mix of house styles and vernacular buildings ranging in age from 15 to 85 years. Some of the older homes have been altered. Most notably, the 1917 house at 1967 Burbank Avenue, opposite the Burbank Housing parcels, has had new windows installed and the roofline has
been raised to a level inappropriate for this style of house. The residence at 1850 Burbank Avenue has had two additions to the east end, giving this home a Ranch-style appearance. None of the buildings adjacent to the Burbank parcels appear eligible for inclusion on the National Register of Historic Places or the California Register of Historical Resources.

<table>
<thead>
<tr>
<th>Address</th>
<th>APN</th>
<th>Date*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1840 Burbank Avenue</td>
<td>125-421-020</td>
<td>1990</td>
</tr>
<tr>
<td>1850 Burbank Avenue</td>
<td>125-421-021</td>
<td>1946</td>
</tr>
<tr>
<td>1870 Burbank Avenue</td>
<td>125-421-003</td>
<td>1949</td>
</tr>
<tr>
<td>1845 Burbank Avenue</td>
<td>125-411-006</td>
<td>1952</td>
</tr>
<tr>
<td>1967 Burbank Avenue</td>
<td>125-471-014</td>
<td>1917</td>
</tr>
<tr>
<td>2021 Burbank Avenue</td>
<td>125-471-018</td>
<td>1942</td>
</tr>
<tr>
<td>2050 Burbank Avenue</td>
<td>125-421-014</td>
<td>1942</td>
</tr>
<tr>
<td>830 Liana Drive</td>
<td>125-421-013</td>
<td>1987</td>
</tr>
</tbody>
</table>

* From county records

**Cobblestone Homes Inc.**
The Cobblestone Homes, Inc. property is comprised of two adjacent parcels, one oriented toward McMinn Avenue and the other toward Burbank Avenue. Both consist of relatively level land that is undeveloped. The parcel at 1027 McMinn Avenue has a remnant walnut orchard. The parcel at 1360 Burbank Avenue is a wooded lot with small, deciduous oak trees, poison oak, berry vines, annual and perennial grasses, and forbs. There are a few fruit trees on this parcel, suggesting that it might once have been an orchard.

**Schellinger Homes**
There are two noncontiguous Schellinger parcels. The parcel at 1400 Burbank Avenue is situated along a small seasonal drainage. This parcel consists primarily of annual grasses and forbs. Riparian plant species are found along the drainage. The parcel contains a house, various outbuildings, and a paddock. This U-shaped, frame house was constructed in the 1930s and has had subsequent additions that have compromised its architectural integrity.

A concerted effort was made to identify the any remains of the family cemetery reported at 1400 Burbank Avenue in the *Southwest Santa Rosa Master Environmental Assessment* (LSA 1991). No evidence was apparent in the field. Using the information from the *Southwest Santa Rosa Area Plan Final Environmental Impact Report* the search was narrowed to the eastern end of the parcel. Additional, limited, archival research uncovered no other documentary evidence to pinpoint the location (Sonoma County Genealogical Society 1985, 1999, 2001).

The second Schellinger parcel, at 1780 Burbank Avenue, contains a 1939 residence, a newer, corrugated metal barn, and one small outbuilding. The house is a modest example of the Minimal Traditional style common before and after World War II. None of these buildings is architecturally significant.

No archaeological resources were discovered within the study area.
RECOMMENDATIONS

Annexation Area

The Burbank Avenue Annexation area contains 33 buildings listed by Harris and Clarke (1991b) as ‘Notable Architectural Properties’ (Appendix B). Of the 33 properties described in the 1991 architectural study, 15 date to the 1940s and 1950s, six are from the 1930s, eight from the 1920s, three from the 1910s, and one predates 1900. Buildings and structures in excess of 45 years could be important for their architectural/historical value and should be evaluated on a project-specific basis as developed is planned.

Known Resources

None of the buildings within the parcels proposed for development appear eligible for inclusion on the National Register of Historic Places or the California Register of Historical Resources as separate properties. In addition, none of the buildings on properties adjoining those parcels to be developed by Burbank Housing Development Corporation appear eligible for listing on either of the registers listed above. These buildings were examined in compliance with Section 106 of the National Environmental Policy Act (36CFR800). No further research is recommended for these buildings.

The “T. M. Markham Family Plot” reported on the parcel at 1400 Burbank Avenue was not found during field examination of the property. Because the cemetery was reported to be deteriorated in 1991 and additional time has elapsed, it is possible that evidence of the family plot was obscured by dense vegetation along the seasonal creek that flows through the parcel. Alternatively, the cemetery might be located on an adjacent parcel. The following recommendations are made regarding this resource:

- Further research should be conducted to determine the precise location of the cemetery. Research could include review of county records and interviews with current and former landowners in the vicinity, as well as vegetation clearing.

- The location of the cemetery should be marked in the field and excluded from project development, in accordance with federal, state, and local laws pertaining to human graves.

Accidental Discovery

There is the possibility that buried archaeological deposits could be present, and accidental discovery could occur. In keeping with the CEQA guidelines, if archaeological remains are uncovered, work at the place of discovery should be halted immediately until a qualified archaeologist can evaluate the finds (§15064.5 [f]). Prehistoric archaeological site indicators include: obsidian and chert flakes and chipped stone tools; grinding and mashing implements (e.g., slabs and handstones, and mortars and pestles); bedrock outcrops and boulders with mortar cups; and locally darkened midden soils. Midden soils may contain a combination of
any of the previously listed items with the possible addition of bone and shell remains, and fire affected stones. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, dumps).

The following actions are promulgated in the CEQA Guidelines Section 15064.5(d) and pertain to the discovery of human remains. If human remains are encountered, excavation or disturbance of the location must be halted in the vicinity of the find, and the county coroner contacted. If the coroner determines the remains are Native American, the coroner will contact the Native American Heritage Commission. The Native American Heritage Commission will identify the person or persons believed to be most likely descended from the deceased Native American. The most likely descendent makes recommendations regarding the treatment of the remains with appropriate dignity.

**SUMMARY**

Tom Origer & Associates conducted a cultural resources survey for a proposed annexation and development project along Burbank Avenue between Hearn Avenue and Hughes Avenue, southwest Santa Rosa, Sonoma County, California. Frank Denney, Cobblestone Homes, Inc., requested and authorized the study on behalf of three companies (Burbank Housing Development Corporation, Cobblestone Homes, and Schellinger Homes) proposing to develop portions of the annexation area.

This study included archival research at the Northwest Information Center, Sonoma State University (NWIC File No. 01-1322), examination of the library and files of Tom Origer & Associates. Information regarding the presence of sacred sites or other cultural use sites was sought from the Native American Heritage Commission and local Native American organizations. The entire annexation area was included in the archival portion of this study. A field inspection of the six parcels proposed for development was also completed. Two parcels, which are planned for development by Burbank Housing Development Corporation, were examined under Section 106 of the National Environmental Policy Act, because development of these parcels will likely be funded in part with federal money. The four remaining parcels were examined under the California Environmental Quality Act.

Field survey found no archaeological resources; however, the parcel at 1400 Burbank Avenue reportedly contains a family cemetery dating to the 1860s. The location of the cemetery is uncertain and recommendations were made for finding the cemetery and protecting its location from development. No specific recommendations were necessary regarding the remaining five parcels.
MATERIALS CONSULTED

Barrett, S.

Bean, L. and D. Theodoratus

Bell and Heymans
1888 Map of Sonoma County, California. Bell and Heymans.

Bowers, A.
1867 Map of Sonoma County, California. 2nd edition. A. Bowers.

Chavez, D. and J. Hupman
1993 Cultural Resources Investigations for the Southwest Santa Rosa Area Plan Environmental Impact Report, Sonoma County, California. Document S-16080 on file at the Northwest Information Center, Sonoma State University.

City of Santa Rosa

EIP Associates

Fredrickson, D.

General Land Office (GLO)
1859 Plat of the Cabeza de Santa Rosa. Department of the Interior, Washington, D.C.

1866 Plat of Township 7 North, Range 8 West. Department of the Interior, Washington, D.C.

Hale, Mark R.
1986 An Archaeological Investigation of the Proposed Villa Royale Subdivision at Stony Point Road (A.P.125-241-02), Santa Rosa, Sonoma County, California. Document S-7979 on file at the Northwest Information Center, Sonoma State University, Rohnert Park, California.
Harris, D. and S. Clarke


Hoover, M., H. Rensch, E. Rensch, W. Abeloe

Hoover, M., H. Rensch, E. Rensch, W. Abeloe, and D. Kyle

King, Thomas F.
1973 An Archaeological Reconnaissance of the Lehmann Property on Gloria Street, Santa Rosa, California. Document S-289 on file at the Northwest Information Center, Sonoma State University, Rohnert Park, California.

Kniffen, F.

Kroeber, A.

Loyd, J. and T. Origer

LSA Associates, Inc.
1991 Southwest Santa Rosa Master Environmental Assessment.

McIntire and Lewis
1908 Official Map of the County of Sonoma, California. County of Sonoma, California.

McLendon, S. and R. Oswalt

Meighan, C.
1955 Archaeology of the North Coast Ranges, California. Reports of the University of California Archaeological Survey No. 30. University of California, Berkeley.
Miller, V.  
1972 *Soil Survey of Sonoma County, California*. U.S. Department of Agriculture in cooperation with the University of California Agricultural Experiment Station.

Moratto, M.  

Office of Historic Preservation (OHP)  


Origer, T.  
1976 *Timber Ridge Development*. Document S-262 on file at the Northwest Information Center, Sonoma State University, Rohnert Park, California.

1991 *An Archaeological Study of Revised Portions of the AT&T Route near Santa Rosa and Sausalito* (letter report). Document S-13399 on file at the Northwest Information Center, Sonoma State University, Rohnert Park, California.

Peugh, E.  
1934 *Official Map of Sonoma County, California*. County of Sonoma, California.

Powers, S.  

Reynolds, W. and T. Proctor  
1898 *Illustrated Atlas of Sonoma County, California*. Reynolds and Proctor, Santa Rosa.

Sonoma County Genealogical Society  
1985 *Sonoma County Death Records 1873-1905*. Sonoma County Genealogical Society, Santa Rosa, California.


State of California Department of Parks and Recreation  
1976 *California Inventory of Historic Resources*. Department of Parks and Recreation, Sacramento.
Stewart, O.

Thompson, T.H. & Co.

United States Army Corps of Engineers (USACE)
1957 Santa Rosa 15’ tactical map. Army, Washington D.C.

United States Geological Survey (USGS)
Appendix A

Native American Consultation
## Native American Consultation Efforts
### Burbank Avenue Annexation Project (TOA 02-23CT)

<table>
<thead>
<tr>
<th>Organization</th>
<th>Contact</th>
<th>Letters</th>
<th>Calls</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Native American Heritage Commission</td>
<td>Debbie Pilas-Treadway</td>
<td>3-6-02</td>
<td>3-20-02</td>
<td>Received faxed letter from Debbie stating that record search of their sacred lands file did not indicate presence of Native American cultural resources in the immediate project area. She further stated that their file is not conclusive and suggested that the following people should be contacted, as well.</td>
</tr>
<tr>
<td>Federated Indians of Graton Rancheria (707) 566-2288</td>
<td>Tim Campbell</td>
<td>3-6-02</td>
<td>3-20-02</td>
<td>Talked to secretary. She will have Tim call when he returns to the office. Tim left message on Sunday that he would check back on Tuesday. Called and left message for Tim asking for return call if he has any information. Tim returned call later, but did not have information or map in front of him. After the location was described to him, he said that the project area falls within a generally environmentally sensitive area. He said that at a minimum, a monitor should be present during excavation and that appropriate guidelines be followed. Mr. Campbell said that he would write a letter to that affect, but needed the letter and map faxed to him before he could do that. He will get the fax tomorrow afternoon when he gets back from being out in the field.</td>
</tr>
</tbody>
</table>
## Native American Consultation Efforts

### Burbank Avenue Annexation Project (TOA 02-23CT)

<table>
<thead>
<tr>
<th>Organization</th>
<th>Contact</th>
<th>Letters</th>
<th>Calls</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pomo, Coast Miwok contact</td>
<td>Kathleen Smith</td>
<td>3-6-02</td>
<td>3-20-02</td>
<td>Kathleen at first said that she had no knowledge of any sacred lands or cultural sites within the study area, but offered that the area generally could have been either a hunting ground for the Native Americans, or possibly an herb gathering area. Her grandmother lived on Chico Avenue, and when Kathleen grew up she remembers visiting her in the springtime and seeing many wildflowers in the area.</td>
</tr>
<tr>
<td>Ya-Ka-Ama Indian Educational Center</td>
<td>Board of Directors</td>
<td>3-6-02</td>
<td></td>
<td>Ya-Ka-Ama generally responds to us if they have any information.</td>
</tr>
<tr>
<td>Dry Creek Rancheria of Pomo Indians</td>
<td>Cultural Committee</td>
<td>3-6-02</td>
<td>3-20-02</td>
<td>Talked to Liz DeRouen. She said that Tom Keegan probably got the letter, but he is out of town until Monday. In the past, Mr. Keegan has said that no response means that he has no information. Talked to Tom Keegan, who has no information, but said that he would call back if others on committee have any knowledge.</td>
</tr>
<tr>
<td>Pomo, Coast Miwok contact</td>
<td>Dawn S. Getchell</td>
<td>3-6-02</td>
<td>3-20-02</td>
<td>No answer. Could not leave message on faulty answering machine. Called, but only got someone that said Dawn was at work. She could not hear me very well and hung up before I could leave a message.</td>
</tr>
</tbody>
</table>
## Native American Consultation Efforts
**Burbank Avenue Annexation Project (TOA 02-23CT)**

<table>
<thead>
<tr>
<th>Organization</th>
<th>Contact</th>
<th>Letters</th>
<th>Calls</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lytton Indian Community of Pomo Indians</td>
<td>Dianne Seidner</td>
<td>3-6-02</td>
<td>3-20-02</td>
<td>Did not call, because Dianne will not be back in the office until next week. Called and left message for Dianne asking for return call if she has any information.</td>
</tr>
<tr>
<td>(707) 575-5917</td>
<td>Environmental Coordinator</td>
<td></td>
<td>3-26-02</td>
<td></td>
</tr>
<tr>
<td>Cloverdale Rancheria</td>
<td>Vickey Macias</td>
<td>3-6-02</td>
<td>3-20-02</td>
<td>Left Vickey a message asking for a return phone call. Called and left message for Vickey asking for return call if she has any information.</td>
</tr>
<tr>
<td>(707) 894-5775</td>
<td>Tribal Administrator</td>
<td></td>
<td>3-26-02</td>
<td></td>
</tr>
</tbody>
</table>
March 5, 2002

Debbie Pilas-Treadway
Native American Heritage Commission
915 Capitol Mall
Sacramento, CA 95814

Re: Burbank Avenue Annexation, Sonoma County California

Dear Ms. Pilas-Treadway:

I write regarding a cultural resources study our firm is conducting for Cobblestone Homes Inc. and two other firms. These firms plan to develop several parcels along Burbank Avenue in southwest Santa Rosa. In order to do so, they are proposing a general plan to annex an area along Burbank Avenue between Hughes Avenue and Hearn Avenue, Sonoma County. We are seeking information from the Native American Heritage Commission regarding possible sacred lands and other cultural sites within the project area. We would also like to obtain a list of individuals whom it would be appropriate to contact regarding this project. I have enclosed a portion of the Santa Rosa 7.5’ USGS map showing the project location.

Please contact me at (707) 792-2797 if you have any questions or need additional information. Thank you for your help.

Sincerely,

Sue-Ann Schroder
Associate
March 20, 2002

Sue Ann Schroder
Tom Orger & Associates
P.O. Box 1531
Rohnert Park, CA 94927

Send by Fax: (707) 792-2798
Pages Sent: 2

RE: Proposed Burbank Avenue Annexation, Sonoma County.

Dear Ms. Schroder:

A record search of the sacred lands file has failed to indicate the presence of Native American cultural resources in the immediate project area. The absence of specific site information in the sacred lands file does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Enclosed is a list of Native Americans individuals/organizations who may have knowledge of cultural resources in the project area. The Commission makes no recommendation or preference of a single individual, or group over another. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated, if they cannot supply information, they might recommend other with specific knowledge. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at (916) 653-4038.

Sincerely,

Debbie Pilas-Treadway
Environmental Specialist III
NATIVE AMERICAN CONTACTS
Sonoma County
March 19, 2002

Dawn S. Getchell
P.O. Box 53
Jenner, CA 95450
(707) 865-2248
Coast Miwok Pomo
Lytton Band of Pomo Indians
Diane Seidner
1250 Coddington Cir, Suite 1
Santa Rosa, CA 95401
(707) 575-5917
Fax: (707) 575-6974

Grant Smith
4309 Chico Ave
Santa Rosa, CA 95401
(707) 528-2584
Coast Miwok Pomo
Mishewal-Wappo Tribe of Alexander Valley
Earl Couey
3572 Phillips Ave
Santa Rosa, CA 95407
(707) 585-0502
ecouey@pacbell.net

Kathleen Smith
1778 Sunnyvale Avenue
Walnut Creek, CA 94596
(925) 938-6323
Pomo Coast Miwok
Mishewal-Wappo Tribe of Alexander Valley
John Trippo, Chairperson
PO Box 7342
Santa Rosa, CA 95407
coupley@pacbell.net

Cloverdale Rancheria of Pomo Indians
555 South Cloverdale Blvd., Pomo
Cloverdale, CA 95425
(707) 894-5775
Stewarts Point Rancheria
Lester Pinola, Chairperson
1420 Guerneville Road, Suite 3 Pomo
Santa Rosa, CA 95401
(707) 591-0580 - Voice
(707) 591-0583 - Fax

Dry Creek Rancheria of Pomo Indians
Gregg Cordova, Chairperson
P.O. Box 607
Geyersville, CA 95441
(707) 431-2388
Pomo
Ya-Ka-Ama
6215 Eastside Road
Fresonville, CA 95436
(707) 867-1541
Pomo Miwok Wappo

Tom Keegan

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7650.5 of the Health and Safety Code, Section 5087.94 of the Public Resources Code and Section 5097.50 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regards to the cultural assessment for the proposed Burbank Avenue Annexation, Sonoma County.
March 5, 2002

Vickey Macias  
Tribal Administrator  
Cloverdale Rancheria  
555 South Cloverdale Boulevard, Suite 1  
Cloverdale, CA 95425

Dear Ms. Macias:

I write regarding a cultural resources study our firm is conducting for Cobblestone Homes Inc. and two other firms. These firms plan to develop several parcels along Burbank Avenue in southwest Santa Rosa. In order to do so, they are proposing to annex an area along Burbank Avenue between Hughes Avenue and Hearn Avenue, Sonoma County.

As part of our study, we are requesting information from the Native American community regarding sacred lands or other cultural sites within the study area that might be impacted by project activities. Information received in response to this inquiry can be used to address cultural concerns before project activities proceed. Enclosed is a street map showing the project location.

Someone from our office will call you the week of March 11, 2002 to make sure you have received this letter and to answer questions you might have about the project. Please contact me at (707) 792-2797 if you need more information. Thank you for your help.

Sincerely,

Sue-Ann Schroder  
Associate
March 5, 2002

Cultural Committee
Dry Creek Rancheria of Pomo Indians
P.O. Box 607
Geyserville, CA 95441

Dear Committee Members:

I write regarding a cultural resources study our firm is conducting for Cobblestone Homes Inc. and two other firms. These firms plan to develop several parcels along Burbank Avenue in southwest Santa Rosa. In order to do so, they are proposing to annex an area along Burbank Avenue between Hughes Avenue and Hearn Avenue, Sonoma County.

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Sincerely,

Sue-Ann Schroder
Associate
March 5, 2002

Tim Campbell
Cultural Resource Officer
Federated Indians of Graton Rancheria
P.O. Box 481
Novato, CA 94948

Dear Mr. Campbell:

I write regarding a cultural resources study our firm is conducting for Cobblestone Homes Inc. and two other firms. These firms plan to develop several parcels along Burbank Avenue in southwest Santa Rosa. In order to do so, they are proposing to annex an area along Burbank Avenue between Hughes Avenue and Hearn Avenue, Sonoma County.

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Sincerely,

Sue-Ann Schroder
Associate
facsimile transmittal

<table>
<thead>
<tr>
<th>To:</th>
<th>Tim Campbell</th>
<th>Fax:</th>
<th>707-566-2291</th>
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<tr>
<td>From:</td>
<td>Toni Douglass</td>
<td>Date:</td>
<td>03/26/02</td>
</tr>
<tr>
<td>Re:</td>
<td>Burbank Ave, Santa Rosa Project</td>
<td>Pages:</td>
<td>3 including cover</td>
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✓ Urgent   ✓ For Review   ✓ Please Comment   ✓ Please Reply   □ Please Recycle

Hi Tim,

Per our conversation yesterday afternoon I have faxed the letter and map that was sent to you by Sue-Ann Schroder on March 5th. Our report is due this week, so time is of the essence. You said that you would write a letter expressing your concerns about the project area (please see attached), including the suggestion of a monitor being present during excavation, following appropriate guidelines. It would be much appreciated if you could fax your letter as soon as possible. Thank you for your time.

Sincerely,
Toni Douglass
March 5, 2002

Dawn S. Getchell
P.O. Box 53
Jenner, CA 95450

Dear Ms. Getchell:

I write regarding a cultural resources study our firm is conducting for Cobblestone Homes Inc. and two other firms. These firms plan to develop several parcels along Burbank Avenue in southwest Santa Rosa. In order to do so, they are proposing to annex an area along Burbank Avenue between Hughes Avenue and Hearn Avenue, Sonoma County.

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Sincerely,

Sue-Ann Schroder
Associate
March 5, 2002

Kathleen Smith
1778 Sunnyvale Avenue
Walnut Creek, CA 94596

Dear Ms. Smith:

I write regarding a cultural resources study our firm is conducting for Cobblestone Homes Inc. and two other firms. These firms plan to develop several parcels along Burbank Avenue in southwest Santa Rosa. In order to do so, they are proposing to annex an area along Burbank Avenue between Hughes Avenue and Hearn Avenue, Sonoma County.

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Sincerely,

Sue-Ann Schroder
Associate
March 5, 2002

Ya-Ka-Ama Indian Educational Center
Board of Directors
6215 Eastside Road
Forestville, CA 95436

Dear Board Members:

I write regarding a cultural resources study our firm is conducting for Cobblestone Homes Inc. and two other firms. These firms plan to develop several parcels along Burbank Avenue in southwest Santa Rosa. In order to do so, they are proposing to annex an area along Burbank Avenue between Hughes Avenue and Hearn Avenue, Sonoma County.

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Sincerely,

Sue-Ann Schroder
Associate
Appendix B

List of Notable Architectural Properties
<table>
<thead>
<tr>
<th>AP#</th>
<th>Street Address</th>
<th>Architectural Style</th>
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Appendix B – Floodplains

### Map Search Results

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Appendix C – Wetlands


- **Hazel Mitigation Preserve, LLC.** *Bill of Sale & Payment Receipt: 0.20 Acre of Wetland Creation Credits.* Greenbrae, CA : s.n., June 1, 2006 and June 2, 2006. Army Corps Number: 22495N.

- **Department of the Army, San Francisco District, Corps of Engineers.** *Letter to Mr. George Molnar, LSA Associates, Inc. in RE: File Number 22495N.* Regulatory Branch (1145b) : s.n., March 16, 2006.


Crossroads Apartments Affordable Housing Development

Wetland Eight-Step Decision Making Process Documentation

Whenever HUD financial assistance is proposed for a project within a designated wetland, compliance with the 8-step decision making process of Section 2(b) of Executive Order 11988 for Floodplain Management is required, and is implemented by HUD Regulations found at 24 CFR 55.20(b) for the HUD action that is within and/or affects a floodplain or wetland. The Executive Order seeks to avoid to the extent possible the long and short term adverse impacts associated with the occupancy and modification of wetlands and to avoid direct or indirect support of wetland development wherever there is a practicable alternative.

Burbank Housing Corporation (Burbank) has proposed the development of a new 79-unit apartment community in unincorporated Sonoma County, California at 1980-2010 Burbank Avenue. The project location is two adjacent parcels, 2.5 acres each for a total of 5 acres (APNs 125-421-018 and 125-421-019). The new community will provide long term affordable housing for very low- and low-income Sonoma County households. A total of 11 units will be HOME-Assisted units. The development includes a total of 141 parking spaces, indoor and outdoor community meeting areas, laundry and outdoor play areas. The project proposes to extend the currently truncated Liana Drive through to Burbank Avenue. An improvement as part of the project, the creation of the through street will allow parking, entrances to the project as well as emergency vehicle access to the site. The proposed project involves new construction.

This process consists of eight steps, including public notices and an examination of practicable alternatives. The steps followed in this decision making process were:

**Step 1. Determine whether the proposed action is located in a designated wetland. If the proposed action would not be conducted in one of those locations, then no further compliance with this part is required.**

In 1997, a Special-Status Plant Survey was conducted by Laurence P. Stromberg, Ph. D., a wetlands consultant. He determined that the site is in the portion of the Santa Rosa Plain over which the US Army Corps of Engineers (Corps) has conditioned the issuance of a Nationwide Permit 26, for the discharge of fill into wetlands that are isolated and/or above the headwaters. He notes that the site does not have any natural surface drainage features such as defined channels or swales. He determined wetland features on the site include one vernal pool and other seasonal wetlands. The total area is approximately 1,059 square feet (sf) or 0.045 acres, 840 sf (0.019 acre) of which are vernal pool habitat and 219 sf (0.005 acre) of which are other seasonal wetlands.

In March 2006, the Corps provided a revised confirmation of the extent of Corps jurisdiction at the site, in a letter to LSA Associates (File Number 22495N). The delineation letter states that the non-tidal ditch
adjacent to the property, the vernal pool, and the other small seasonal wetlands on the property are non-jurisdictional wetlands not subject to Section 404-Clean Water Act jurisdiction.

The definition of wetlands for projects receiving Federal Funding is more stringent. The total 0.05 acre area is considered a wetland, so this 8-Step Decision Making Process is required. Approximately 0.05 acres of wetlands would be filled in by the project as proposed.

**Step 2. Notify the public at the earliest possible time of a proposal to consider an action in a designated wetland, and involve the affected and interested public in the decision making process.**

A Public Notice concerning the project was published in the Press Democrat, the local general circulation newspaper for Sonoma County, serving Santa Rosa, on July 18, 2011. A list of interested public agency officials and adjacent properties was developed. The Notice was mailed directly to them. Finally, a copy of the project plans was made available for public inspection at the Sonoma County Community Development Commission. A copy of that Notice is included herein.

The 15- day public comment period expired on August 2, 2011. There were no objections to the use of Federal funds for projects in the wetland. See attached Public Notice and Proof of Publication.

**Step 3. Identify and evaluate practical alternatives to locating the proposed action in a wetland.**

**Alternative A: No Action Alternative.**

This alternative would entail no change to the site, which would remain in its existing condition (vacant land).

Impacts:

Under this alternative, the project impacts described in the Environmental Assessment would not occur. The vacant parcels would continue in their vacant state – possibly turning over to private development for an unknown use. Although the wetland would remain unaffected, very low- and low-income households would be negatively impacted by the continued lack of available affordable housing in the unincorporated areas of Sonoma County.

The site is located on a vacant parcel. The small affected wetland would remain. However the no project alternative would result in a net adverse impact to the wetland because the mitigations required under the preferred alternative would purchase higher quality wetland areas in a critical habitat at 2X the amount. Thus expanding the net land area dedicated to the preservation of wetlands.

**Alternative B: Alternative uses of the site.**

Development of the site for some alternative use would have the same impact as the proposed project. Grading and paving would still result in fill of the existing wetland on the site. Even minimal
development of the site, such as for recreational or neighborhood park uses would negatively impact the wetlands on the site.

**Alternative C: Build the project in another location.**

This alternative would entail locating the project in another location.

Impacts:

The project area is in the Southwest Redevelopment Project Area. The Southwest Redevelopment District was adopted in July, 2000. At approximately 2,000 acres, this is the city’s largest redevelopment area. It comprises two large portions of land in the southwest quadrant of Santa Rosa, south of Highway 12 and west of Highway 101. Some of the land in the Southwest area is unincorporated Sonoma County. The Southwest Redevelopment Area includes many areas with underdeveloped infrastructure, including roads in poor condition, missing sidewalks, lack of modern water and sewer systems, lack of amenities such as parks and other public facilities, and poor vehicular access due to narrow and/or discontinuous roads. Therefore, many of the current and planned redevelopment-funded projects in the Southwest are capital public improvements such as new and improved roads, parks, and sewer and water systems. Building the project in another location would not meet the goals set forth by the City of Santa Rosa. Relocation of the project would effectively stop the project due to lack of funding.

**Preferred Alternative – Proposed Project**

In light of the housing goals of Sonoma County and the redevelopment/annexation of the area by the City of Santa Rosa, moving forward with this project is the preferred alternative. This project is subject to joint design review by the City of Santa Rosa and the County of Sonoma which will lead to the best configuration of the site that is both beneficial to residents and the community.

The site is located on a vacant parcel. The small affected wetland would remain. However the no project alternative would result in a net adverse impact to the wetland because the mitigations required under the preferred alternative would purchase higher quality wetland areas in a critical habitat at 2X the amount. Thus expanding the net land area dedicated to the preservation of wetlands.

**Step 4. Identify the potential direct and indirect impacts associated with locating the proposed action in a wetland.**

Based on the Corps delineation and Dr. Stromberg’s survey, the wetlands would be directly affected by the project. Approximately 0.05 acres of wetlands would be filled by the project as proposed. A Biological Assessment prepared by LSA Associates in August 2006, states that no special status plants were observed during two years of protocol level field surveys of the site. The developer will be required to mitigate loss of the wetland by purchase of 0.05 acre of wetlands creation credits and preservation of
0.05 acre of plant habitat. The compensation is consistent with the mitigations guidelines in the Santa Rosa Plain Conservation Strategy. The net effect will be that twice as many acres of new – higher grade wetlands will be created.

**Step 5. Modify the design to minimize the potential adverse impacts.**

This was not possible due to the location of the wetlands (see attached map) which are scattered about the two parcels (non-contiguous).

**Step 6. Reevaluate the alternatives.**

The wetlands are scattered about the two parcels, making avoidance by design infeasible.

**Step 7. Determination of no practicable alternatives and second public notice.**

It is our determination that there is no practicable alternative to locating this project in the wetland. Without construction of this project, the need for affordable housing in Sonoma County would continue to be exacerbated by economic forces and would go unmet. The need for affordable housing is substantial. The second public notice for this project was published in the Press Democrat, which is newspaper of general circulation that serves Sonoma County and Santa Rosa as a combined notice with the Finding of No Significant Impact and Notice of Intent to Request Release of Funds.

**Step 8. Implement the proposed action.**

Implementation and construction of the project will be permitted and monitored for compliance by the Sonoma County Community Development staff.

Attachments:

Location map of wetlands at the site

Certified Proof of Publication

Mailing list of interested parties

As-mailed version of the Wetland Notice
Crossroads Apartments Affordable Housing Development
Proof of Publication
Press Democrat
WETLAND NOTICE #1 MAILING LIST
Crossroads Apartments
Burbank Ave, Santa Rosa, CA
*** Mailed: 7/15/91 ***

U.S. EPA Headquarters Office
NEPA Compliance Division
Office of Federal Activities
401 "M" St., S.W.
Washington, D.C. 20460

Jane Hicks
US Army Corps of Engineers
Attention: CESPN-CO-R
1455 Market Street, Floor 17
San Francisco, CA 94103-1360

North Coast Regional Water Quality
Control Board
5550 Skyline Boulevard, Suite A
Santa Rosa, California 95403

ABAG
PO Box 2050
Oakland, CA 94604

Fred Bengs, Community Dev Assoc
Sonoma County Community Dev Comm
1440 Guerneville Road
Santa Rosa, CA 95403

Tom Lauderbach
Burbank Housing Corp.
790 Sonoma Avenue
Santa Rosa, CA 95404

Donald R. & Mary L. Cook
830 Liana Drive
Santa Rosa, CA 95407-7494

Lisa S. Pesce
2021 Burbank Avenue
Santa Rosa, CA 95407-7116

Ismael Soto Lugo
1965 Burbank Avenue
Santa Rosa, CA 95407-5905

Richard P. & Lorraine A. Papp
1845 Burbank Avenue
Santa Rosa, CA 95407-7115

Walter D. Murphy III
571 Los Palmos Drive
San Francisco, CA 94127-2209

Ramiro R. Ortiz
1850 Burbank Avenue
Santa Rosa, CA 95407-7115

William J. & Teanna L. Boriolo
1840 Burbank Avenue
Santa Rosa, CA 95407-7115

Irene E. Carter
450 Urbano Drive
San Francisco, CA 94127-2827

Irene E. Carter or Occumant
2049 Burbank Avenue
Santa Rosa, CA 95407-7115

U.S. EPA Region IX
Air & Toxics Division
75 Hawthorne St.
San Francisco, CA 94150

Allan Buckman
California Dept. of Fish & Game
P.O. Box 47
Yountville, CA 94599

M. Wayne Donaldson
State Historic Preservation Officer
Calif. Dept. of Parks & Recreation
1725 23rd Street, Suite 100
Sacramento, CA 95816

Paul R. & Judith A. Pesce
6020 Dutch Mine Road
Diamond Springs, CA 95619-9372

Paul R. & Judith A. Pesce or Occupant
2050 Burbank Avenue
Santa Rosa, CA 95407-7116

Ismael Soto Lugo
1965 Burbank Avenue
Santa Rosa, CA 95407-5905
NOTICE OF PROPOSED USE OF FEDERAL FUNDS FOR PROJECTS LOCATED IN A WETLAND

July 18, 2011

Sonoma County Community Development Commission
1440 Guerneville Road
Santa Rosa, CA 95403-4107

TO ALL INTERESTED AGENCIES, GROUPS AND PERSONS: The Sonoma County Community Development proposes to use funds from Community Development Block Grant (CDBG) funds, a program of the U.S. Department of Housing and Urban Development (HUD), for an affordable housing project. A small portion of this site has been identified as containing a wetland.

The Sonoma County Community Development Commission has initiated an 8-Step Review Process for the use of these program funds within the wetland in accordance with Executive Order 11990, Wetlands Protection, and per the requirements of HUD. This process affords the public and interested agencies the opportunity to comment on the use of federal funds in the wetland, to secure project modifications to restore, preserve and protect the wetland, or to offer practical alternatives to locating projects in the wetland.

Project Description

Burbank Housing Corporation (Burbank) has proposed the development of a new 79-unit apartment community in unincorporated Sonoma County, California at 1980-2010 Burbank Avenue. The project location is two adjacent parcels, 2.5 acres each for a total of 5 acres (APNs 125-421-018 and 125-421-019). The new community will provide long term affordable housing for very low- and low-income Sonoma County households. A total of 11 units will be HOME-Assisted units. The development includes approximately 136 parking spaces, indoor and outdoor community meeting areas, laundry and outdoor play areas. The project proposes to extend the currently truncated Liana Drive through to Burbank Avenue. An improvement as part of the project, the creation of the through street will allow parking, entrances to the project as well as emergency vehicle access to the site. The proposed project involves new construction.

Public Review and Comment

Preliminary project plans, are available for public inspection at the Sonoma County Community Development Commission, 1440 Guerneville Road, Santa Rosa, CA 95403 (707) 565-7500.

Written comments on the use of these funds for the portion of this project situated in the wetland should be received by 5:00 p.m. Tuesday, August 2, 2011 to be considered in the review process. Please address comments to Fred Bengs, Sonoma County Community Development Commission, 1440 Guerneville Road, Santa Rosa, CA 95403.

Kathleen H. Kane, Certifying Officer
Regulatory Division (1145b)

Subject: File Number SPN-224950N

Mr. Pascal Sisich  
Burbank Housing Development Corporation  
790 Sonoma Avenue  
Santa Rosa, California 95404

Dear Mr. Sisich:

This correspondence is in reference to your Department of the Army (DA) permit application, received September 21, 2015, to fill 0.04 of an acre of wetlands to construct the Crossroads Affordable Housing Project at Santa Rosa, Sonoma County, California (Lat: 38.41847°N, Long: -122.7326°W). Based on the information you provided to us, Nationwide Permit (NWP) 29 Residential Developments, 77 Fed. Reg. 10,184 (Feb. 21, 2012) (enclosure 1), authorizes your proposal as depicted on the two figures at enclosure 2, dated September 2015. The project must be in compliance with the terms of the NWP, the general conditions of the nationwide permit program, and the San Francisco District regional conditions cited in enclosure 3. You must also be in compliance with any special conditions specified in this letter for the NWP authorization to remain valid. Non-compliance with any term or condition could result in revocation of the NWP authorization for your project, thereby requiring you to obtain an individual permit from the DA. This NWP authorization does not obviate the need to obtain other State or local approvals required by law.

This verification will remain valid until March 18, 2017, unless the NWP authorization is modified, suspended, or revoked. Activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon a NWP will remain authorized provided the activity is completed within 12 months of the date of a NWP's expiration, modification, or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend, or revoke the authorization in accordance with 33 C.F.R. § 330.4(e) and 33 C.F.R. §§ 330.5 (c) or (d). This verification will remain valid if, during the time period between now and March 18, 2017, the activity complies with any subsequent modification of the NWP authorization. The Chief of Engineers will periodically review NWPs and their conditions and will decide to either modify, reissue, or revoke the permits. If a NWP is not modified or reissued within five years of its effective date, it automatically expires and becomes null and void. It is incumbent upon you to remain informed of any changes to the NWPs. Changes to the NWPs would be announced by public notice posted on our website (http://www.spn.usace.army.mil/Missions/RegulatoryPublicNotices.aspx). Upon completion of the project, you must sign and return the Certification of Compliance (enclosure 4) verifying that you have complied with the terms and conditions of the permit.
This authorization will not be effective until you have obtained a Section 401 water quality certification from the San Francisco Bay Regional Water Quality Control Board (RWQCB). If the RWQCB fails to act on a valid request for certification within two months after receipt of a complete application, the Corps will presume a waiver of water quality certification has been obtained. You shall submit a copy of the certification to the Corps prior to the commencement of work.

In order to ensure compliance with this NWP authorization, the following special condition shall be implemented:

1. To remain exempt from the prohibitions of Section 9 of the Endangered Species Act (ESA), the non-discretionary Terms and Conditions for incidental take of federally-listed Species shall be fully implemented as stipulated in the Biological Opinion entitled, Formal Consultation on the Proposed Burbank Avenue Housing Project at 1980 and 2010 Burbank Avenue, Santa Rosa, Sonoma County California (USFWS reference 1-1-06-F-0227), dated June 29, 2007. Project authorization under the NWP is conditional upon compliance with the mandatory terms and conditions associated with incidental take. Failure to comply with the terms and conditions for incidental take, where a take of a federally-listed species occurs, would constitute an unauthorized take and non-compliance with the NWP authorization for your project. The U.S. Fish and Wildlife Service (USFWS) is the authoritative federal agency for determining compliance with the incidental take statement and for initiating appropriate enforcement actions or penalties under the ESA.

A preliminary jurisdictional determination (JD) has been completed for your site. Preliminary JDs are written indications that there may be waters of the U.S. on a parcel or indications of the approximate location(s) of waters of the U.S. on a parcel. Preliminary JDs are advisory in nature and may not be appealed. While this preliminary JD was conducted pursuant to Regulatory Guidance Letter No. 08-02, Jurisdictional Determinations, it may be subject to future revision if new information or a change in field conditions becomes subsequently apparent. The basis for this preliminary JD is explained in the enclosed preliminary JD form at enclosure 5 which has been signed and dated by this office.

You may refer any questions on this permit to Jonathan Smith of my Regulatory staff by telephone at 415 503-6784 or by e-mail at Jonathan.Smith@usace.army.mil. All correspondence should be addressed to the Regulatory Division, South Branch, referencing the file number at the head of this letter.

The San Francisco District is committed to improving service to our customers. My Regulatory staff seeks to achieve the goals of the Regulatory Program in an efficient and
cooperative manner, while preserving and protecting our nation's aquatic resources. If you would like to provide comments on our Regulatory Program, please complete the customer service survey form available on our website: http://www.spn.usace.army.mil/Missions/Regulatory.aspx

Sincerely,

Tori White
Acting Chief, Regulatory Division

Enclosures

Copies Furnished (w/ drawings):

CA RWQCB, Oakland, CA
Nationwide Permit 29 - Residential Developments

Discharges of dredged or fill material into non-tidal waters of the United States for the construction or expansion of a single residence, a multiple unit residential development, or a residential subdivision. This NWP authorizes the construction of building foundations and building pads and attendant features that are necessary for the use of the residence or residential development. Attendant features may include but are not limited to roads, parking lots, garages, yards, utility lines, storm water management facilities, septic fields, and recreation facilities such as playgrounds, playing fields, and golf courses (provided the golf course is an integral part of the residential development). The discharge must not cause the loss of greater than 1/2-acre of non-tidal waters of the United States, including the loss of no more than 300 linear feet of stream bed, unless for intermittent and ephemeral stream beds the district engineer waives the 300 linear foot limit by making a written determination concluding that the discharge will result in minimal adverse effects. This NWP does not authorize discharges into non-tidal wetlands adjacent to tidal waters.

Subdivisions: For residential subdivisions, the aggregate total loss of waters of United States authorized by this NWP cannot exceed 1/2-acre. This includes any loss of waters of the United States associated with development of individual subdivision lots.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity. (See general condition 31.) (Sections 10 and 404)

Federal Register Vol. 77, No. 34 /Tuesday, February 21, 2012 /Notices 10259
CROSSROADS APARTMENTS
1980 & 2010 BURBANK AVENUE, SANTA ROSA, CALIFORNIA
A BURBANK HOUSING DEVELOPMENT CORPORATION COMMUNITY

CONCEPTUAL SITE PLAN
SCALE: 1" = 60' = 1

Reference: SPN-224950N
Burbank Housing Development Corp.
Santa Rosa, Solano County
Date: September 2015    Sheet 2 of 2

BUILDING LEGEND

UNIT ACCESSIBILITY
A. ADAPTABLE PLAT 2ND FLOOR
B. ADAPTABLE PLAT WITH WALK-IN SHOWER
C. CONFORMING WITH ADAPTABLE 2ND FLOOR

UNIT MIX
22 - 1 BEDROOM
24 - 2 BEDROOM
32 - 3 BEDROOM
79 UNITS TOTAL

UNIT PROVIDED
92 ON-SITE STANDARD PARKING
21 ON-SITE COMPACT PARKING
39 ON-STREET PARKING
138 PARKING SPACES TOTAL

PROJECT DATA
A.P. #:
SITE AREA:
JURISDICTION:
EXISTING ZONING:
PROPOSED ZONING:
SANTA ROSA GENERAL PLAN DESIGNATION:
PROPOSED DENSITY:
COUNTY OF SONOMA
125-472-018 & 019
4.5 ACRES
RBS-100
MEDIUM DENSITY RESIDENTIAL (5-APARTMENT)
92-2 UNITS/WACHE

LIANA DRIVE
Nationwide Permit General Conditions

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWP's, or who is currently relying on an existing or prior permit authorization under one or more NWP's, has been and is on notice that all of the provisions of 33 CFR §§ 330.1 through 330.5 apply to every NWP authorization. Note especially 33 CFR § 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation. (b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee’s expense on authorized facilities in navigable waters of the United States. (c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWPs 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization and storm water management activities, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

Enclosure 3
11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats or other measures must be taken to minimize soil disturbance.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

13. Removal of Temporary Fills. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless Section 7 consultation addressing the effects of the proposed activity has been completed. (b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address ESA compliance for the NWP activity, or whether additional ESA consultation is necessary. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed work or that utilize the designated critical habitat that might be affected by the proposed work. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the project, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification the proposed activities will have "no effect" on listed species or critical habitat, or until Section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps. (d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific regional endangered species conditions to the NWPs. (e) Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the U.S. FWS or the NMFS, The Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word "harm" in the definition of "take" means an act which actually kills
or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering. (f) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the U.S. FWS and NMFS or their world wide web pages at http://www.fws.gov/ or http://www.fws.gov/ippac and http://www.noaa.gov/fisheries.html respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for obtaining any "take" permits required under the U.S. Fish and Wildlife Service’s regulations governing compliance with the Migratory Bird Treaty Act or the Bald and Golden Eagle Protection Act. The permittee should contact the appropriate local office of the U.S. Fish and Wildlife Service to determine if such "take" permits are required for a particular activity.

20. Historic Properties. (a) In cases where the district engineer determines that the activity may affect properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied. (b) Federal permittees should follow their own procedures for complying with the requirements of Section 106 of the National Historic Preservation Act. Federal permittees must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will review the documentation and determine whether it is sufficient to address section 106 compliance for the NWP activity, or whether additional section 106 consultation is necessary. (c) Non-federal permittees must submit a pre-construction notification to the district engineer if the authorized activity may have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties may be affected by the proposed work or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of or potential for the presence of historic resources can be sought from the State Historic Preservation Officer or Tribal Historic Preservation Officer, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of Section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted and these efforts, the district engineer shall determine whether the proposed activity has the potential to cause an effect on the historic properties. Where the non-Federal applicant has identified historic properties on which the activity may have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects or that consultation under Section 106 of the NHPA has been completed. (d) The district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA Section 106 consultation is required. Section 106 consultation is not required when the Corps determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR §800.3(a)). If NHPA section 106 consultation is required and will occur, the district engineer will notify the non-Federal applicant that he or she cannot begin work until Section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps. (e) Prospective permittees should be aware that section 110(k) of the NHPA (16 U.S.C. 470h-2(k)) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of Section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment. (a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters. (b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with general condition 31, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that adverse effects on the aquatic environment are minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse effects of the proposed activity are minimal, and provides a project-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332. (1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332. (2) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332. (3) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in minimal adverse effects on the aquatic environment. Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332. (4) If permittee responsible mitigation is the proposed option, the permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be submitted by the district engineer to the applicant and the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) – (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)). (5) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation, such as stream rehabilitation, enhancement, or preservation, to ensure that the activity results in minimal adverse effects on the aquatic environment.

(e) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any project resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that a project already meeting the established acreage limits also satisfies the minimal impact requirement associated with the NWPs.
(f) Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the restoration or establishment, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, riparian areas may be the only compensatory mitigation required. Riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to establish a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or establishing a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(g) Permittees may propose the use of mitigation banks, in-lieu fee programs, or separate permittee-responsible mitigation. For activities resulting in the loss of marine or estuarine resources, permittee-responsible compensatory mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(h) Where certain functions and services of waters of the United States are permanently adversely affected, such as the conversion of a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse effects of the project to the minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA Section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:
"When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below."

(Transferee)

(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized work was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the work and mitigation.

31. Pre-Construction Notification.

(a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either: (1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or (2) 45 calendar days have passed from the district engineer’s receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or in the vicinity of the project, or to notify the Corps pursuant to general condition 20 that the activity may have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or Section 106 of the National Historic Preservation (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee’s right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).
(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information: (1) Name, address and telephone numbers of the prospective permittee; (2) Location of the proposed project; (3) A description of the proposed project; the project’s purpose; direct and indirect adverse environmental effects the project would cause, including the anticipated amount of loss of water of the United States expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. The description should be sufficiently detailed to allow the district engineer to determine that the adverse effects of the project will be minimal and to determine the need for compensatory mitigation. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. Sketches usually clarify the project and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans; (4) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many waters of the United States. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate; (5) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse effects are minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan. (6) If any listed species or designated critical habitat might be affected or is in the vicinity of the project, or if the project is located in designated critical habitat, for non-Federal applicants the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work. Federal applicants must provide documentation demonstrating compliance with the Endangered Species Act; and (7) For an activity that may affect a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, for non-Federal applicants the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property. Federal applicants must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it is a PCN and must include all of the information required in paragraphs (b)(1) through (7) of this general condition. A letter containing the required information may also be used.

(d) Agency Coordination: (1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity’s compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project’s adverse environmental effects to a minimal level. (2) For all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States, for NWP 21, 29, 38, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of intermittent and ephemeral stream bed, and for all NWP 48 activities that require pre-construction notification, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (U.S. FWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Office (THPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to telephone or fax the district engineer notice that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity’s compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects to the aquatic environment of the proposed activity are minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies’ concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will
consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5. (3) In cases where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act. (4) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.
San Francisco District Regional Conditions

A. General Regional Conditions that apply to all NWPs in the Sacramento, San Francisco, and Los Angeles Districts:

1. When pre-construction notification (PCN) is required, the permittee shall notify the U.S. Army Corps of Engineers, San Francisco District (Corps) in accordance with General Condition 31 using either the South Pacific Division Preconstruction Notification (PCN) Checklist or a signed application form (ENG Form 4345) with an attachment providing information on compliance with all of the General and Regional Conditions. In addition, the PCN shall include:
   
a. A written statement describing how the activity has been designed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States;

b. Drawings, including plan and cross-section views, clearly depicting the location, size and dimensions of the proposed activity, as well as the location of delineated waters of the U.S. on the site. The drawings shall contain a title block, legend and scale, amount (in cubic yards) and area (in acres) of fill in Corps jurisdiction, including both permanent and temporary fills/structures. The ordinary high water mark or, if tidal waters, the mean high water mark and high tide line, should be shown (in feet), based on National Geodetic Vertical Datum (NGVD) or other appropriate referenced elevation. All drawings for activities located within the boundaries of the Los Angeles District shall comply with the September 15, 2010 Special Public Notice: Map and Drawing Standards for the Los Angeles District Regulatory Division, available on the Los Angeles District Regulatory Division website at: www.spl.usace.army.mil/regulatory/; and

   c. Numbered and dated pre-project color photographs showing a representative sample of waters proposed to be impacted on the site, and all waters of the U.S. proposed to be avoided on and immediately adjacent to the activities site. The compass angle and position of each photograph shall be identified on the plan-view drawing(s) required in subpart b of this Regional Condition.

2. The permittee shall submit a PCN, in accordance with General Condition 31, For all activities located in areas designated as Essential Fish Habitat (EFH) by the Pacific Fishery Management Council (i.e., all tidally influenced areas - Federal Register dated March 12, 2007, 72 C.F.R. 11,092, in which case the PCN shall include an EFH assessment and extent of proposed impacts to EFH. Examples of EFH habitat assessments can be found at: http://www.swr.noaa.gov/efh.htm.

3. For activities in which the Corps designates another Federal agency as the lead for compliance with Section 7 of the Endangered Species Act (ESA) of 1973 as amended, 16 U.S.C. §§ 1531-1544, Section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act (EFH), 16 U.S.C. § 1855(b)(4)(B) and/or Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended, 16 U.S.C. §§ 470-470h, the lead Federal agency shall provide all relevant documentation to the appropriate Corps demonstrating any previous consultation efforts, as it pertains to the Corps Regulatory permit area (for Section 7 and EFH compliance) and the Corps Regulatory area of potential effect (APE) (for Section 106 compliance). For activities requiring a PCN, this information shall be submitted with the PCN. If the Corps does not designate another Federal agency as the lead for ESA, EFH and/or NHPA, the Corps will initiate consultation for compliance, as appropriate.
4. For all activities in waters of the U.S. that are suitable habitat for Federally-listed fish species, the permittee shall design all road crossings to ensure that the passage and/or spawning of fish is not hindered. In these areas, the permittee shall employ bridge designs that span the stream or river, including pier- or pile-supported spans, or designs that use a bottomless arch culvert with a natural stream bed unless determined to be impracticable by the Corps.

5. The permittee shall complete the construction of any compensatory mitigation required by special condition(s) of the NWP verification before or concurrent with commencement of construction of the authorized activity, except when specifically determined to be impracticable by the Corps. When mitigation involves use of a mitigation bank or in-lieu fee program, the permittee shall submit proof of payment to the Corps prior to commencement of construction of the authorized activity.

6. Any requests to waive the 300 linear foot limitation for intermittent and ephemeral streams for NWPs 21, 29, 39, 40, 42, 43, 44, 50, 51 and 52, or to waive the 500 linear foot limitation along the bank for NWP 13, must include the following:
   a. A narrative description of the stream. This should include known information on: volume and duration of flow; the approximate length, width, and depth of the waterbody and characteristics observed associated with an Ordinary High Water Mark (e.g. bed and bank, wrack line or scour marks); a description of the adjacent vegetation community and a statement regarding the wetland status of the adjacent areas (i.e. wetland, non-wetland); surrounding land use; water quality; issues related to cumulative impacts in the watershed, and; any other relevant information;
   b. An analysis of the proposed impacts to the waterbody, in accordance with General Condition 31;
   c. Measures taken to avoid and minimize losses to waters of the U.S., including other methods of constructing the proposed activity(s); and
   d. A compensatory mitigation plan describing how the unavoidable losses are proposed to be offset, in accordance with 33 CFR 332.

B. General Regional Conditions that apply to all NWPs in the San Francisco District:

1. Notification to the Corps (in accordance with General Condition No. 31) is required for any activity permitted by NWP if it will take place in waters or wetlands of the U.S. that are within the San Francisco Bay diked baylands (see figure 1) (undeveloped areas currently behind levees that are within the historic margin of the Bay. Diked historic baylands are those areas on the Nichols and Wright map below the 5-foot contour line, National Geodetic Vertical Datum (NGVD) (see Nichols, D.R., and N. A. Wright. 1971. Preliminary map of historic margins of marshland, San Francisco Bay, California. U.S. Geological Survey Open File Map)). The notification shall explain how avoidance and minimization of losses of waters or wetlands are taken into consideration to the maximum extent practicable (see General Condition 23).

2. Notification to the Corps (in accordance with General Condition No. 31) is required for any activity permitted by NWP if it will take place in waters or wetlands of the U.S. that are within the Santa Rosa Plain (see figure 2). The notification will explain how avoidance and minimization of losses of waters or wetlands are taken into consideration to the maximum extent practicable in accordance with General Condition No. 23.

3. Notification to the Corps (in accordance with General Condition No. 31), including a compensatory mitigation plan, habitat assessment, and extent of proposed-project impacts
to Eelgrass Beds are required for any activity permitted by NWP if it will take place within or adjacent to Eelgrass Beds.

C. Regional Conditions that apply to specific NWPs in the San Francisco District:

3. MAINTENANCE:
   1. To the extent practicable, excavation equipment shall work from an upland site (e.g., from the top of the bank, the road bed of the bridge, or culverted road crossing) to minimize adding fill into waters of the U.S. If it is not practicable to work from an upland site, or if working from the upland site would cause more environmental damage than working in the stream channel, the excavation equipment can be located within the stream channel but it must minimize disturbance to the channel (other than the removal of accumulated sediments or debris). As part of the notification to the Corps (in accordance with General Condition No. 31), an explanation as to the need to place excavation equipment in waters of the U.S. is required, as well as a statement of any additional necessary fill (e.g., cofferdams, access road, fill below the OHW mark for a staging area, etc.).

   2. If the activity is proposed in a special aquatic site, the notification to the Corps (in accordance with General Condition No. 31) shall include an explanation of why the special aquatic site cannot be avoided, and the measures to be taken to minimize impacts to the special aquatic site.

11. TEMPORARY RECREATIONAL STRUCTURES:
   1. Notification to the Corps (in accordance with General Condition No. 31) is required if any temporary structures are proposed in wetlands or vegetated shallow water areas (e.g. in eelgrass beds). The notification shall include the type of habitat and areal extent affected by the structures.

12. UTILITY LINE ACTIVITIES:
   1. Excess material removed from a trench, associated with utility line construction, shall be disposed of at an upland site away from any wetlands or other waters of the U.S. so as to prevent this material from being washed into aquatic areas.

   2. This NWP permit does not authorize the construction of substation facilities. Utility line substations can usually be constructed in uplands.

13. BANK STABILIZATION:
   1. Notification to the Corps (in accordance with General Condition No. 31) is required for all activities stabilizing greater than 300 linear feet of channel. Where the removal of wetland vegetation (including riparian wetland trees, shrubs and other plants) or submerged, rooted, aquatic plants over a cumulative area greater than 1/10 acre or 300 linear feet is proposed, the Corps shall be notified (in accordance with General Condition No. 31). The notification shall include the type of vegetation and extent (e.g., areal dimension or number of trees) of the proposed removal. The notification shall also address the effect of the bank stabilization on the stability of the opposite side of the streambank (if it is not part of the stabilization activity), and on adjacent property upstream and downstream of the activity.

   2. This permit allows excavating a toe trench in waters of the U.S., and, if necessary, to use the material for backfill behind the stabilizing structure. Excess material is to be disposed of in a manner that will have only minimal impacts to the aquatic environment. The notification to the Corps (in accordance with General Condition No. 31) shall include location of the disposal site.

   3. For man-made banks, roads, or levees damaged by storms or high flows, the one cubic yard per running foot limit is counted only for that additional fill which encroaches (extends) beyond the pre-flood or pre-storm shoreline condition of the waterway. It is not counted for
the fill that would be placed to reconstruct the original dimensions of the eroded, man-made shoreline.

4. For natural berms and banks, the one cubic yard per running foot limit applies to any added armoring.

5. To the maximum extent practicable, any new or additional bank stabilization must incorporate structures or modifications beneficial to fish and wildlife (e.g., soil bioengineering or biotechnical design, root wads, large woody debris, etc.). Where these structures or modifications are not used, the applicant shall demonstrate why they were not considered practicable.

14. LINEAR TRANSPORATION PROJECTS:

1. Notification to the Corps (in accordance with General Condition No. 31) is required for all projects filling greater than 300 linear feet of channel. For projects involving greater than 300 linear feet of bank stabilization, the project proponent shall address the effect of the bank stabilization on the stability of the opposite side of the streambank (if it is not part of the stabilization activity), and on adjacent property upstream and downstream of the activity.

2. This permit does not authorize construction of new airport runways and taxiways.

3. If this NWP has been used to authorize previous project segments within the same linear transportation project, justification must be provided demonstrating that the cumulative impacts of the proposed and previously authorized project segments do not result in more than minimal impacts to the aquatic system.

4. To the maximum extent practicable, any new or additional bank stabilization required for the crossing must incorporate structures or modifications beneficial to fish and wildlife (e.g., soil bioengineering or biotechnical design, root wads, large woody debris, etc.). Where these structures or modifications are not used, the applicant shall demonstrate why they were not considered practicable. Bottomless and embedded culverts are encouraged over traditional culvert stream crossings.

23. APPROVED CATEGORICAL EXCLUSIONS:

1. Use of this NWP requires notification to the Corps (in accordance with General Condition No. 31). The notification shall include the following:

a. A copy of the Federal Categorical Exclusion (Cat/Ex) document signed by the appropriate federal agency. If the Cat/Ex is signed by a state or local agency representative instead of by a federal agency representative, then copies of all documentation authorizing alternative agency signature shall be provided.

b. Written description of Corps authority (e.g., Section 10 of the Rivers and Harbors Act and/or Section 404 of the Clean Water Act);

c. A list of conditions described in the Cat/Ex and/or attachments outlining measures that must be taken prior to, during, or after project construction to minimize impacts to the aquatic environment;

d. A copy of the jurisdictional delineation performed by qualified specialists showing the project limits and the location (delineated boundaries) of Corps jurisdiction within the overall project limits;

e. Map(s) showing the locations of potentially permanent and temporary project impacts to areas within Corps jurisdiction;
f. a clear and concise description of all project impacts including, but not necessarily limited to:
   1. quantification and description of permanent project impacts to areas within Corps jurisdiction,
   2. quantification and description of temporary impacts to areas within Corps jurisdiction, and
   3. linear extent of Corps jurisdiction affected by the project;

g. a general description of activities covered by the Cat/Ex that do not require Corps authorization but are connected or related to the activities in Corps jurisdiction;

h. a complete description of any proposed mitigation and/or restoration including, but not necessarily limited to, locations of any proposed planting, short- and long-term maintenance, proposed monitoring, success criteria and contingency plans;

i. written justification of how the project complies with the Nationwide Permit Program including less than minimal impact to the aquatic environment and compliance with the General Conditions.

j. For Federal Highway Administration (FHWA) Cat/Ex projects, the notification should describe how activities described in the Cat/Ex meet the description of the Cat/Ex project published in the August 28, 1987 Federal Register part 771.117 (a)(b)(c) and (d) (Volume 52, No. 167) or any updated version published in the Federal Register.

2. Only activities specifically described in the Cat/Ex project description will be covered by the NWP 23 authorization. If other activities not described in the Cat/Ex project description will be performed (e.g., dewatering, slope protection, etc.), these activities must receive separate NWP authorizations.

3. Notification to the Corps (in accordance with General Condition 31) must include a copy of the signed Cat/Ex document and final agency determinations regarding compliance with Section 7 of the Endangered Species Act (ESA), Essential Fish Habitat (EFH) under the Magnuson-Stevens Act, and Section 106 of the National Historic Preservation Act.

27. Aquatic Habitat Restoration, Establishment, and Enhancement Activities

1. Notification to the Corps (in accordance with General Condition 31) must include documentation of a review of project impacts to demonstrate that at the conclusion of the work that the project would result in a net increase in aquatic function. Additionally, the documentation must include a review of project impacts on adjacent properties or structures and must also discuss cumulative impacts associated with the project.

29. Residential Developments:

1. When discharge of fill results in the replacement of wetlands or waters of the U.S. with impervious surfaces, to ensure that the authorized activity does not result in more than minimal degradation of water quality (in accordance with General Condition 25), the residential development shall incorporate low impact development concepts (e.g. native landscaping, bioretention and infiltration techniques, and constructed green spaces) to the extent practicable. A description of the low impact development concepts proposed in the project shall be included with the permit application. More information including low impact development concepts and definitions is available at the following website: http://www.epa.gov/owow/NPS/lid/.

2. Use of this NWP is prohibited within the San Francisco Bay diked baylands (undeveloped areas currently behind levees that are within the historic margin of the Bay. Diked historic baylands are those areas on the Nichols and Wright map (see figure 1) below the 5-foot

33. TEMPORARY CONSTRUCTION, ACCESS, AND DEWATERING:
1. Access roads shall be designed to be the minimum width necessary and shall be designed to minimize changes to the hydraulic flow characteristics of the stream and degradation of water quality (in accordance with General Conditions 9 and 25). The following Best Management Practices (BMPs) shall be followed to the maximum extent practicable to ensure that flow and circulation patterns of waters are not impaired and adverse effects on the aquatic environment will be kept to a minimum:
   
   a. The road shall be properly stabilized and maintained during and following construction to prevent erosion.
   
   b. Construction of the road fill shall occur in a manner that minimizes the encroachment of trucks, tractors, bulldozers, or other heavy equipment within waters of the United States (including adjacent wetlands) that lie outside the lateral boundaries of the fill itself.

2. Vegetative disturbance in the waters of the U.S. shall be kept to a minimum.

3. Borrow material shall be taken from upland sources whenever feasible.

4. Stream channelization is not authorized by this NWP.

35. MAINTENANCE DREDGING OF EXISTING BASINS:
1. Use of this NWP will require notification to the Corps (in accordance with General Condition No. 31). The notification information should be provided on the Consolidated Dredging-Dredged Material Reuse/Disposal Application. This application and instructions for its completion can be found on our web site at: http://www.spn.usace.army.mil/conops/applications.html. The information must include the location of the proposed upland disposal site. A jurisdictional delineation of the proposed upland disposal site prepared in accordance with the current method required by the Corps may also be required.

2. The U.S. Coast Guard will be notified by the permittee at least 14 days before dredging commences if the activity occurs in navigable waters of the U.S. (Section 10 waters).

3. The permittee will be required to provide the following information to the Corps:
   
   a. Dredge Operation Plan: Submit, for approval by this office, no earlier than 60 calendar days and no later than 20 calendar days before the proposed commencement of dredging, a plan which includes the following: Corps file number, a copy of the dredging contract or description of the work under which the contractor will do the permitted work; name and telephone numbers of the dredging contractor's representative on site; proposed dredging start and completion dates; quantity of material to be removed; dredging design depth and typical cross section including overdepth; and date of last dredging episode and design depth. The Dredge Operational Plan shall also provide the following information: The controls being established to insure that dredging operations occur within the limits defined by the basin or channel dimensions and typical channel section.

   b. Pre-Dredge Survey: Submit no earlier than 60 calendar days and no later than 20 calendar days before commencement of dredging, a survey with accuracy to one-tenth foot that delineates and labels the following: areas to be dredged with overdepth allowances; existing depths; estimated quantities to be dredged to the design depth; and
estimated quantities for overdepth dredging. All surveys shall be signed by the permittee to certify their accuracy. Please include the Corps file number.

c. Solid Debris Management Plan: Submit no earlier than 60 calendar days and no later than 20 calendar days before commencement of work, a plan which describes measures to ensure that solid debris generated during any dredging operation is retained and properly disposed in areas not under Corps jurisdiction. At a minimum, the plan shall include the following: source and expected type of debris; debris retrieval method; Corps file number; disposal method and site; schedule of disposal operations; and debris containment method to be used, if floatable debris is involved. (Please note that failure to provide all of the information requested in a, b, and c above may result in delays to your project. When your Dredge Operation Plan has been approved, you will receive a written authorization to commence with your project.)

d. Post-Dredge Survey: Submit, within 30 days of the last disposal activity (“last” is defined as that activity after which no further activity occurs for 15 calendar days), a survey with accuracy to one-tenth foot that delineates and labels the areas dredged and provides the dredged depths. Also, include the Corps file number, actual dates of dredging commencement and completion, actual quantities dredged for the project to the design depth, and actual quantities of overdepth. The permittee shall substantiate the total quantity dredged by including calculations used to determine the volume difference (in cubic yards) between the Pre- and Post-Dredge Surveys and explain any variation in quantities greater than 15% beyond estimated quantities or dredging deeper than is permitted (design plus overdepth allowance). All surveys shall be accomplished by a licensed surveyor and signed by the permittee to certify their accuracy. A copy of the post dredge survey should be sent to the National Ocean Service for chart updating:

NOAA/National Ocean Service,
Nautical Data Branch
N/CS26, SSMC3, Room 7230
1315 East-West Highway
Silver Spring, Maryland 20910-3282.

e. The permittee or dredge contractor shall inform this office when: 1) a dredge episode actually commences, 2) when dredging is suspended (suspension is when the dredge contractor leaves the dredge site for more than 48 hours for reasons other than equipment maintenance), 3) when dredging is restarted, and 4) when dredging is complete. Each notification should include the Corps file number. Details for submitting these notifications will be provided in the verification letter (to whom and how).

39. Commercial and Institutional Developments:
1. When discharge of fill results in the replacement of wetlands or waters of the U.S. with impervious surfaces, to ensure that the authorized activity does not result in more than minimal degradation of water quality (in accordance with General Condition 25), the commercial and institutional development shall incorporate low impact development concepts (e.g. native landscaping, bioretention and infiltration techniques, and constructed green spaces) to the extent practicable. A description of the low impact development concepts proposed in the project shall be included with the permit application. More information including low impact development concepts and definitions is available at the following website: http://www.epa.gov/owow/NPS/list/.

2. Use of this NWP is prohibited within the San Francisco Bay diked baylands (undeveloped areas currently behind levees that are within the historic margin of the Bay. Diked historic baylands are those areas on the Nichols and Wright map (see figure 1) below the 5-foot

40. AGRICULTURAL ACTIVITIES:
1. This NWP does not authorize discharge of fill into the channel of a perennial or intermittent watercourse that could impede high flows. This limitation does not apply to watercourses that flow only when there is an irregular, extraordinary flood event.

41. RESHAPING EXISTING DRAINAGE DITCHES:
1. Compensatory mitigation may be required if the Corps determines there will be a detrimental impact to aquatic habitat.

2. Notification to the Corps (in accordance with General Condition 31) is required if the applicant proposes to re-grade, discharge, install channel lining, or redeposit fill material.

3. The notification to the Corps (in accordance with General Condition 31) shall include an explanation of the project's benefit to water quality and a statement demonstrating the need for the project.

42. RECREATIONAL FACILITIES:
1. If buildings are proposed to be built in waters of the United States, including wetlands, the applicant must demonstrate that there is no on-site practicable alternative that is less environmentally damaging as defined by the Section 404(b)(1) guidelines.
Figure 1: Map of Diked Baylands

Legend
Approximate
Landward Extent of Diked Baylands

Preliminary Map of Historic Margins of Marshland
San Francisco Bay, California

By
Donald R. Nichols and Kerry A. Wright

Western Environmental Systems, Inc.
San Francisco, California
Permittee: Mr. Pascal Sisich
Burbank Housing Development Corporation
790 Sonoma Avenue
Santa Rosa, California 95404

File Number: SPN-224950N

Certification of Compliance
for
Nationwide Permit

"I hereby certify that the work authorized by the above referenced File Number and all required mitigation have been completed in accordance with the terms and conditions of this Nationwide Permit authorization."

______________________________  ______________________________
(Permittee)  (Date)

Return to:

U.S. Army, Corps of Engineers
San Francisco District
Regulatory Division, CESPN-R-S
1455 Market Street
San Francisco, CA 94103-1398

Enclosure 4
# Preliminary Jurisdictional Determination Form

**San Francisco District**

This Preliminary Jurisdictional Determination finds that there "may be" waters of the United States in the subject review area and identifies all such aquatic features, based on the following information:

<table>
<thead>
<tr>
<th>Regulatory Division:</th>
<th>North Branch</th>
<th>File Number:</th>
<th>1996-224950N</th>
<th>PJD Completion Date:</th>
<th>11-3-2015</th>
</tr>
</thead>
</table>

## Review Area Location
- **City/County:** Sonoma County  
- **State:** California  
- **Nearest Named Waterbody:** Unnamed tributary to Santa Rosa Cr  
- **Approximate Center Coordinates of Review Area**
  - **Latitude (degree decimal format):** 38.41847°  
  - **Longitude (degree decimal format):** -122.7326°  
- **Approximate Total Acreage of Review Area:** 5 acres

| File Name: | Crossroads Affordable Housing |

## Applicant or Requestor Information
- **Name:** Pascal Sisich  
- **Company Name:** Burbank Housing Development Corp.  
- **Street/P.O. Box:** 790 Sonoma Avenue  
- **City/State/Zip Code:** Santa Rosa, CA 95404

## Estimated Total Amount of Waters in Review Area
- **Non-Wetland Waters:** lineal feet feet wide and/or 0 acre(s) Flow Regime: Select  
- **Wetlands:** lineal feet feet wide and/or .04 acre(s) Cowardin Class: Select

<table>
<thead>
<tr>
<th>Name of Section 10 Waters Occurring in Review Area</th>
<th>Tidal:</th>
<th>Non-Tidal:</th>
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</thead>
<tbody>
<tr>
<td>☒ Office (Desk) Determination</td>
<td></td>
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<tr>
<td>☒ Field Determination: Date(s) of Site Visit(s): 08-04-2015</td>
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</tbody>
</table>

## Supporting Data:
- Data reviewed for Preliminary JD (check all that apply – checked items should be included in case file and, where checked and requested, appropriately reference sources below)
- Maps. Plans, plots or plat submitted by or on behalf of applicant/requestor (specify): Letter, Request for Re-verification of JD, Crossroads Affordable Housing Project, 1980 and 2010 Burank Avenue, Santa Rosa, CA, dated 28 Apr 2015
- Data sheets submitted by or on behalf of applicant/requestor (specify): same letter referenced above
  - ☒ Corps concurs with data sheets/delineation report.
  - ☐ Corps does not concur with data sheets/delineation report.
  - ☐ Data sheets prepared by the Corps.
  - ☐ Corps navigable waters' study (specify):  
    - ☐ U.S. Geological Survey Hydrologic Atlas:  
      - ☐ USGS NHD data.  
      - ☐ USGS HUC maps.
    - ☐ U.S. Geological Survey map(s) (cite quad nameSCALE):  
    - ☒ USDA Natural Resources Conservation Service Soil Survey.
    - ☐ National wetlands inventory map(s) (specify):  
    - ☐ State/Local wetland inventory map(s) (specify):  
    - ☐ FEMA/FIRM maps.
    - ☒ 100-year Floodplain Elevation (specify, if known):  
    - ☐ Photographs: ☐ Aerial (specify name and date):  
      - ☐ Other (specify name and date):  
    - ☒ Previous JD determination(s) (specify File No. and date of response letter): JD Letter16 Mar 2006, same file number  
    - ☒ Other information (specify): ditch along east side of Burbank Avenue is non-jurisdictional as determined previously.

## Important Note:
If the information recorded on this form has not been verified by the Corps, the form should not be relied upon for later jurisdictional determinations.

<table>
<thead>
<tr>
<th>Signature and Date of Regulatory Project Manager (REQUIRED):</th>
<th>Signature and Date of Person Requesting Preliminary JD (REQUIRED, unless obtaining the signature is impracticable):</th>
</tr>
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<tbody>
<tr>
<td>[Signature] 11-3-15</td>
<td>[Signature] Enclosure 5</td>
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</table>
EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring “preconstruction notification” (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant’s acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.

<table>
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<tr>
<th>Aquatic Resource I.D.</th>
<th>Latitude (degree decimal format)</th>
<th>Longitude (degree decimal format)</th>
<th>Cowardin Class and Flow Regime</th>
<th>Estimated Area or Lineal Feet of Aquatic Resource</th>
<th>Type of Aquatic Resource</th>
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**LEGEND**

- Project Site Review Area
  - Wetland Sample Point
  - Non-wetland Sample Point

**Vegetation**

- Isolated Non-jurisdictional Wetlands: O 0 4 6
  - SW = Seasonal Wetland

---

Preliminary Jurisdictional Determination

Reference: SPN-224950N
Burbank Housing Development Corp.
Santa Rosa, Solano County
Date: 3 Nov 2015
Sheet 2 of 2

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Wetland sample points collected on April 9, 2015 by Jane Valerius, Botanist/Wetland Ecologist

I:
\HD150\GIS\Maps\2015 JD\Figure 1_Updated Wetland Delineation.mxd (4/28/2015)
Hazel Mitigation Preserve, LLC
336 Bon Air Center - Box 232
Greenbrae, CA 94904
(415)-472-1086

PROJECT: HAZEL MITIGATION BANK

PAYMENT RECEIPT: 0.20 ACRE OF WETLAND CREATION CREDITS

PARTICIPANT INFORMATION

Name: Burbank Housing Development Corporation
Address: 790 Sonoma Avenue
Santa Rosa, CA 95404
Telephone: 707-526-9782
Contact: John Lowry

PROJECT INFORMATION

Project Description: Burbank Avenue Apartments, a 117-unit family rental project on approximately 5 acres, will feature 2- and 3-story rental units ranging from 1 bedroom/1 bath units at 600 square feet to 4 bedroom/2 bath units at 1,400 square feet.

Service File Number:
Species/Habitat Affected: Wetland Creation
Credits to be Purchased: 0.20 acre
Payment Amount: $80,000
Project Location: 1980-2010 Burbank Avenue, Santa Rosa
County/Address: Sonoma County
Assessor’s Parcel Number(s): 125-421-019 and 125-421-018

PAYMENT INFORMATION

Payee: Hazel Mitigation Preserve, LLC
Payer: Burbank Housing Development Corporation
Amount: $80,000
Method of Payment: Cash: Exchange of funds at First American Title Company

Received:
Hazel Mitigation Preserve, LLC,
A California Limited Liability Company

By: ___________________________ Date: June 1, 2006

Harvey O. Rick
Its: Managing Member
Hazel Mitigation Preserve, LLC
336 Bon Air Center - Box 232
Greenbrae, CA 94904
(415)-472-1086

BILL OF SALE

Buyer: Burbank Housing Development Corporation

Type and Amount of Credits: 0.20 acre of Wetland Creation Credit

Project Name: Burbank Avenue Apartments

Project Assessor’s Parcel Number(s): 125-421-019 and 125-421-018

Contract Date: 05/06/05

Service File Number:

Army Corps Number: 22495N

In consideration of $80,000, receipt of which is hereby acknowledged, Hazel Mitigation Preserve, LLC, does hereby bargain, sell and transfer to Burbank Housing Development Corporation, herein referred to as “Buyer,” 0.20 acre of Wetland Creation credits (“Wetland Creation Credits”) in the Hazel Mitigation Bank in Sonoma County, California, developed, and approved by the U. S. Fish and Wildlife Service, the U. S. Army Corps of Engineers, the U. S. Environmental Protection Agency, the California Department of Fish and Game, and the North Coast Regional Water Quality Control Board of the State of California.

Hazel Mitigation Preserve, LLC, represents and warrants that it has good title to the Wetland Creation Credits, has good right to sell the same, and that they are free and clear of all claims, liens, or encumbrances.

Hazel Mitigation Preserve, LLC, covenants and agrees with the Buyer to warrant and defend the sale of the Wetland Creation Credits herein before described against all and every person and persons whomsoever lawfully claiming or to claim the same.

DATED: June 2, 2006

Hazel Mitigation Preserve, LLC,
A California Limited Liability Company

By: [Signature]

Harvey O. Rich

Its: Managing Member
Regulatory Branch (1145b)

SUBJECT: File Number 22495N

Mr. George Molnar
LSA Associates, Inc.
157 Park Place
Point Richmond, CA 94801

Dear Mr. Molnar:

Thank you for your letter of October 20, 2005, requesting a revised confirmation of the extent of the Corps of Engineers jurisdiction at 2000 Burbank Avenue, Santa Rosa, Sonoma County, California (APN 125-421-018 and 019). Attached is the original jurisdictional delineation letter from our office dated, August 26, 2002, and the associated map dated August 15, 2002, titled, “Figure 2, Distribution of Wetlands and Locations of Sample Sites, 2000 Burbank Avenue, A.P. Nos. 125-421-018 and 019.”

This letter will revise the aforementioned letter to provide a determination for a roadside ditch located on the property. The ditch runs the length of the western property boundary and is adjacent to the east side of Burbank Avenue.

We have determined that the non-tidal drainage ditch in question does not contain wetlands, nor does it display evidence of an Ordinary High Water Mark (OHWM). Furthermore, the ditch was excavated on dry land and, therefore, is not a waters of the United States as stated in the Preamble to 33 CFR of Section 404 of the Clean Water Act. Enclosed is a revised map, dated March 13, 2006, titled, “Figure 2, Distribution of Wetlands and Locations of Sample Sites, 2000 Burbank Avenue,” showing the extent and location of Corps of Engineers jurisdiction based on a site visit performed by our staff on March 10, 2006. The enclosed map dated, March 13, 2006, supersedes our previous map with the same title, dated, August 15, 2002.

We have based this jurisdictional delineation on the current conditions of the site. A change in those conditions may also change the extent of our jurisdiction. This jurisdictional delineation will expire in three years from the date of this letter. However, if there has been a change in circumstances, which affects the extent of Corps jurisdiction, a revision may be done before that date.

This determination does not obviate the need to obtain other federal, state, or local approvals required by law, including compliance with the Endangered Species Act (16 U.S.C. 1531 et. seq.). In particular, your proposed activity may still be regulated by the State of
California's Regional Water Quality Control Boards. Therefore, in addition to contacting other federal and local agencies, you should also contact state regulatory authorities to determine whether your activities may require other authorizations or permits.

If you have any questions, please call David Wickens of our Regulatory Branch at telephone 415-977-8463. All correspondence should reference the file number at the head of this letter.

Sincerely,

[Signature]

For

Jane M. Hicks
Chief, Regulatory Branch

Enclosure

Copy Furnished w/enclosures:

Brookwood Mortgage & Investment Inc., Santa Rosa, CA  ATTN: Michael Gest
CA RWQCB, North Coast Region, ATTN: Andrew Jensen
CA SWQCB, Sacramento, CA
Figure 2. Distribution of Wetlands and Locations of Sample Sites, 2000 Burbank Avenue (A. P. Nos. 125-421-018 and -019)
August 4, 2005

Mr. Pascal Sisich
Burbank Housing Development Corporation
790 Sonoma Avenue
Santa Rosa, CA 95404

RE: Burbank Avenue Project Site, Second Year of Plant Surveys 2005

Dear Pascal:

This letter reports the results of the second year of plant surveys for special status plants at the Burbank Avenue Project Site located at 1980-2010 Burbank Avenue, Santa Rosa, California. The first year of surveys was conducted by Dr. Laurence P. Stromberg in the spring of 1997. Please refer to Dr. Stromberg’s report dated April 18, 1997 for the special-status plant surveys he conducted.

SITE DESCRIPTION

The project site is located at 1980-2010 Burbank Avenue between Hearn Avenue and Sebastopol Road in an unincorporated area of Santa Rosa. The site is approximately 5 acres in size and is mostly flat with very little topographical relief. The site is mostly grassland with some scattered trees.

METHODS

Surveys for special status plants were conducted in accordance with California Department of Fish and Game guidelines that require that surveys be conducted when special status plant that could potentially occur on the project area plants are flowering. Surveys for special status plants were conducted on March 9, April 2, and May 31, 2005 by Jane Valerius, botanist. Surveys were also conducted on March 18, March 31, and April 16, 1997 by Dr. Stromberg.

Surveys were conducted in accordance with California Department of Fish & Game (CDFG) guidelines, which require that surveys for special status plants be conducted at the time of year when these species are most identifiable, which is usually when they are in flower. The surveys were conducted during the time of year when the three federally listed plants species known to occur within the Santa Rosa Plain are in flower. These three species are Sebastopol meadowfoam (Limnanthes vinculans), Sonoma sunshine (Blechnosperma bakeri), and Burke’s goldfields (Lasthenia burkei).
RESULTS

The project area is comprised of annual grassland with some scattered trees, coyote bush (Baccharis pilularis), Himalayan blackberry (Rubus discolor) thickets, and two small seasonal wetland areas. The annual grassland consists of annual grasses and weedy forb species including oats (Avena fatua and A. barbata), brome grasses (Bromus hordeaceus and B. diandrus), annual ryegrass (Lolium multiflorum), and bindweed (Convolvulus arvensis). Two small wetland areas occur within the project site. The wetland features on the site include one vernal pool and other seasonal wetlands (Stromberg 1997). The total area of wetlands on the site is 1,059 square feet (sf) or 0.045 acres. The vernal pool is 840 sf or 0.019 acres and the other seasonal wetland area is 219 sf or 0.005 acres.

Plant species noted in the wetland areas include Mediterranean barley (Hordeum maritimum ssp. gussoneanum), perennial ryegrass (Lolium perenne), bristly ox-tongue (Picris echioides), California semaphore grass (Pleurophugon californicus), curly dock (Rumex crispus), brown-head rush (Juncus phaeocephalus), and flowering quillwort (Lilaea scilloides).

CONCLUSIONS

No special status plant species were found during the 1997 and 2005 surveys. Habitats on the site are degraded and the wetland areas are very small. A Wetland Quality Evaluation Report was prepared by Dr. Stromberg dated April 18, 1997. In this report the overall score for the wetland areas was 138, which ranks this area as having low quality wetlands.

I hope that this information is helpful. Please do not hesitate to contact me if you have any questions or require additional information.

Sincerely,

Jane Valerius
Botanist/Wetland Specialist
SECOND-YEAR (2002) SPECIAL-STATUS PLANT SURVEY,
2000 BURBANK AVENUE (A. P. NOS. 125-421-018 and -019),
SANTA ROSA, CALIFORNIA

Submitted to:

Mr. John Lowry
Burbank Housing Development Corporation
3432-A Mendocino Avenue
Santa Rosa, CA 95403

Prepared by:

Laurence P. Stromberg, Ph.D.
Wetlands Consultant
59 Jewell Street
San Rafael, CA 94901
(415) 721-0700

June 24, 2002
July 2, 2002

Mr. John Lowry
Burbank Housing Development Corporation
3432-A Mendocino Avenue
Santa Rosa, CA 95403

SUBJECT: SPECIAL-STATUS PLANT SURVEY REPORT AND CURRENT STATUS OF ISOLATION DETERMINATION, 2000 BURBANK AVENUE, SANTA ROSA

Corps file no: 22495N

Dear John:

Here is a copy of the report of findings for the special-status plant I conducted this last spring. As you can see from the conclusion, the results of the survey were negative. The two-year survey requirement has, therefore, been satisfied, with negative findings in both years (1997 was the other year), meaning that the mitigation for impacts on endangered plant species habitat will be 1:1 rather than 2:1. Every project on the Santa Rosa Plain must mitigate for impacts on endangered plant species habitat unless no suitable habitat is present; although no plants are present, the habitat is suitable.

I have corresponded with the Corps of Engineers (John Knudsen, Dan Martel) via email regarding the decision regarding isolation subsequent to our field visit but I have yet to receive a response. I will contact you as soon as I receive that response and, in the interim, intend to remind them regularly that the matter is very easy to resolve and that the decision should be made to consider them isolated.

If you have any questions about the report, please call. Thank you.

Sincerely,

Laurence P. Stromberg, Ph.D.
Wetlands Consultant

attach: 2002 special-status plant species survey report (one copy)
SECOND-YEAR (2002) SPECIAL-STATUS PLANT SURVEY,
2000 BURBANK AVENUE (A. P. NOS. 125-421-018 and -019),
SANTA ROSA, CALIFORNIA

1.0. INTRODUCTION

1.1. PROJECT SITE LOCATION AND DESCRIPTION

1.1.1. Project Site Location

The project site comprises two parcels (A. P. Nos. 125-421-018 and -019) with a combined area of approximately 6.8 acres located in southwest Santa Rosa (Figure 1), on Burbank Avenue between Sebastopol Road and Hearn Avenue (Figure 2). The site is in the portion of the Santa Rosa Plain over which the Corps of Engineers has conditioned the issuance of Nationwide Permit 26, for the discharge of fill into wetlands that are isolated and/or above the headwaters. The site is also within the area that would be covered by the general permit for which the City of Santa Rosa submitted an application to the Corps of Engineers.

1.1.2. Project Site Description

The site is abandoned pasture land. Some farm outbuildings occur along the northern property line. An oval ring on the aerial photograph suggests that the site appears to have been most recently used to ride horses. A few scattered fruit trees indicate that the site may have at one time supported an orchard. Himalaya blackberry forms thickets along the north and east property lines.

1.2. PHYSICAL AND HYDROLOGIC CONDITIONS

1.2.1. Topography and Drainage

The site is relatively level. The total difference in elevation appears to be less than one foot, expressed over the whole site in the very gentle slope to the west and locally in a small number of shallow depressions.

The site does not have any natural surface drainage features such as defined channels or swales, and the surface topography appears to be undisturbed. Therefore, while the development of the surrounding properties has changed the local overland flow processes, it has not modified any patterns of concentrated surface runoff.

There is a roadside drainage ditch on the east side of Burbank Avenue (off-site). No defined or undefined drainages or ditches occur on the site or on adjacent properties and none of the wetlands has a surface hydrologic connection with the roadside ditch along Burbank Avenue. Consequently,
Applicant:
Mr. John Lowry
Burbank Housing Development Corporation
3432-A Mendocino Avenue
Santa Rosa, CA 95403
(707) 526-9782

Site:
2000 Burbank Avenue
Santa Rosa, California

Nominal Scale
1:140,000

Regional Location Map

FIGURE 1
no surface water connection exists between the wetlands and any off-site tributary that reaches or carries water to a navigable water. Because the wetlands (described in the following section) occur in depressions, the hydraulic gradients in the immediately surrounding microwatersheds are toward rather than through or away from the wetlands. Water would not flow through the vadose zone (near-surface soils above the water-restricting horizon) from any of the wetlands toward the ditch along Burbank Avenue. Weekly observations made during the 2001-02 winter rainy season to assess the suitability of the wetlands as breeding habitat for the California tiger salamander revealed that ponding was less than 0.5 ft. and that, at no time, did water appear to flow off-site from any of the wetlands. Water would have to pond to a depth of more than 1.4 feet before it could flow west toward the drainage ditch on the east side of Burbank Avenue and that depth was not even reached in during the heavy December rains.

1.2.2. Soils

The soils on the project site are mapped by the Soil Conservation Service (U. S. Soil Conservation Service 1992) as belonging to the Clear Lake series. The terrain in which the Clear Lake series is mapped is typically level, characterized by gentle surface gradients and little topographic variation. The soils possess clay surface and subsurface horizons and are generally characterized by low rates of infiltration and percolation and water can remain perched at or near the surface, with ponding occurring in depressional areas. Clear Lake clay series is considered a vernal pool soil by the Vernal Pool Task Force (CH2M Hill 1996).

The Soil Conservation Service (renamed the National Resource Conservation Service) field office in Santa Rosa has developed a list of hydric soils that occur in Sonoma County. The Clear Lake clay series is listed or classified as a hydric soil.

1.3. SEASONAL WETLANDS

The FAC-neutral test was used to delineate the wetlands at the parcel at 2000 Burbank Avenue. The FAC-neutral test is one in which FAC species with an equal likelihood of occurring in wetlands and uplands are considered neutral in deciding whether the vegetation at a site is hydrophytic. FAC species are ignored and the decision is made on the other species present (Environmental Laboratory 1987). The test is useful when the delineator questions the indicator status of particular plant species or where the outcome of a delineation rests on decisions about the vegetation in an area where the site occurs in what is not an obvious wetland. The Corps manual provides guidance that the Corps must be confident that the area is a wetland to take jurisdiction when the vegetation is dominated by FAC species.

The wetland features on the site include one vernal pool and other seasonal wetlands (Figure 3). The total area is approximately 1,059 sf or 0.045 acres, 840 sf (0.019 ac) of which are vernal pool habitat and 219 sf (0.005 ac) of which are other seasonal wetlands. The vernal pool fits the profile for vernal pools in Clear Lake clay soils, displaying evidence of regular inundation and potential ponding to a depth exceeding 0.5 ft. Based on dead plant material from the 1995-96 growing season and seedlings and young plants that initiated growth in the 1996-97 growing season, the vegetation is depauperate, containing very few of the species characteristic of vernal pools on the Santa Rosa.
Plain (listed in Table 3-1 of the Vernal Pool Ecosystem Preservation Plan). The dominant species appear to include ryegrass, curly dock, and bristly ox tongue.

The seasonal wetlands do not appear to be of natural origin. Although minimal size is not a conclusive determinant for vernal pools, the other depressional areas appear to have resulted from excavation because of their shape. Regardless of the origin, the wetlands in the other depressions support the same plant species and are compositionally similar to the vernal pool.

1.4. UPLAND HABITAT

The upland habitat on the property is primarily a ruderal annual grassland. At one time in the past, however, the site supported an orchard but most of the trees have been removed or have died. Still, some walnuts and plums remain and several valley oaks (Quercus lobata) are present in the eastern half of the property and a single coast live oak is present (Quercus agrifolia). The oaks are immature and many are multi-stemmed (divided below breast height). They range in diameter from an inch to 18 inches with most having diameters between two and 10 inches. Himalaya blackberry (Rubus discolor) patches and stands of coyote bush (Baccharis pilularis var. consanguinea) are also scattered across the site.

The annual grassland is dominated by the species listed in Table 1. These species include FAC wetland species such as Mediterranean barley (Hordeum marinum var. gussonanum), ryegrass (Lolium perenne), and bristly ox tongue (Picris echioides). The indicator status of the Mediterranean barley is reasonably accepted but ryegrass occurs on upland sites in areas that are not typically investigated by Corps personnel because they do not support wetlands of any kind. Dan Martel of the Corps agrees that ryegrass occurs on heavy clay soils that are not necessarily hydric (Martel personal communication). Bristly ox tongue also tends to occur on upland sites that have been disturbed and displays a tendency to become established in soils where the moisture content whether or not they are hydric. The disturbance can result from any of a number of activities, including discing, scraping of surface vegetation, etc. In Windsor, the Corps recently verified a wetland delineation on a site where bristly ox tongue is one of the dominant species on mixed imported fill that is developing upland characteristics, omitting many virtually all of the areas dominated by the ox tongue.

The subdominant species that occur in the annual grassland include ripgut brome (Bromus diandrus), soft chess (Bromus hordeaceus), hedge bindweed (Convolvulus arvensis), teasel (Dipsacus sylvestris), cutleaf geranium (Geranium dissectum), Harding grass (Phalaris aquatica), curly dock (Rumex crispus), and vetch (Vicia cracca). Harding grass is a species that is well-adapted to disturbance and that is increasing not only on the project site but in all but the wettest sites on the Santa Rosa Plain. The grassland appears to have changed little since the previous special-status plant survey was conducted in 1997. The primary difference is the increased cover and abundance of Harding grass.
Table 1. Dominant Plant Species Observed in Annual Grassland and Seasonal Wetland Habitats on the Burbank Avenue Site

<table>
<thead>
<tr>
<th>Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avena fatua</td>
<td>UPL</td>
</tr>
<tr>
<td>Baccharis pilularis spp. consanguinea</td>
<td>UPL</td>
</tr>
<tr>
<td>Bromus diandrus</td>
<td>UPL</td>
</tr>
<tr>
<td>Bromus hordaceus</td>
<td>FACU</td>
</tr>
<tr>
<td>Bromus secalinus</td>
<td>NL</td>
</tr>
<tr>
<td>Convolvulus arvensis</td>
<td>UPL</td>
</tr>
<tr>
<td>Daucus carota</td>
<td>NL</td>
</tr>
<tr>
<td>Dipsacus sylvestris</td>
<td>NL</td>
</tr>
<tr>
<td>Epilobium paniculatum</td>
<td>NL</td>
</tr>
<tr>
<td>Erodium botrys</td>
<td>UPL</td>
</tr>
<tr>
<td>Erodium moschatum</td>
<td>UPL</td>
</tr>
<tr>
<td>Geranium dissectum</td>
<td>UPL</td>
</tr>
<tr>
<td>Hordeum marinum ssp gussoneanum</td>
<td>FAC</td>
</tr>
<tr>
<td>Juncus phaeocephalus</td>
<td>FACW</td>
</tr>
<tr>
<td>Lolium perenne</td>
<td>FAC</td>
</tr>
<tr>
<td>Phalaris aquatica (P. tuberosa)</td>
<td>FACU</td>
</tr>
<tr>
<td>Picris echioides</td>
<td>FAC</td>
</tr>
<tr>
<td>Plantago lanceolata</td>
<td>NL</td>
</tr>
<tr>
<td>Quercus lobata</td>
<td>FAC</td>
</tr>
<tr>
<td>Ranunculus californicus</td>
<td>FAC</td>
</tr>
<tr>
<td>Rubus discolor</td>
<td>FAC</td>
</tr>
<tr>
<td>Rumex crispus</td>
<td>FACW</td>
</tr>
<tr>
<td>Rumex pulcher</td>
<td>FAC-</td>
</tr>
<tr>
<td>Sisymbrium irio</td>
<td>UPL</td>
</tr>
<tr>
<td>Tragopogon porrifolius</td>
<td>NL</td>
</tr>
<tr>
<td>Trifolium repens</td>
<td>FACU</td>
</tr>
<tr>
<td>Vicia cracca</td>
<td>UPL</td>
</tr>
</tbody>
</table>
2.0. METHODS

Target special-status species were identified by request for a search of records at the California Natural Diversity Data Base. Information on distributional and habitat requirements of the upland species was obtained from flora (Mason 1975, Munz and Keck 1968), other reports and surveys conducted for special-status species on the Santa Rosa Plain, surveys conducted on properties in the vicinity of the study area, and the California Native Plant Society’s list of rare and endangered plant species in the state (Skinner and Pavlik 1994). A RareFind Data Base Search from the California Natural Diversity Data Base was also used as support documentation for the identification of target species and known sites for special-status species. The search, dated March 8, 2001, was conducted for multiple projects on the Santa Rosa Plain and covered the Santa Rosa, Cotati, Healdsburg, Two Rock, and Sebastopol 7.5-minute topographic quadrangles. The expiration date for the search is January 8, 2002.

The species that have the potential to occur in the region surrounding the site are listed in the table in Appendix A. The three primary species for which the survey was conducted are Sebastopol meadowfoam (Limnanthes vinculans), Sonoma sunshine (Blemnosperma bakeri), and Burke’s goldfields (Lasthenia burkei). Several species are listed in the table in Appendix A but many other special-status species that occur in the region are limited to habitats which do not occur on the project site and were omitted from the list. Some species that occur most frequently in chaparral and/or oak woodland were excluded because such habitats are not present.

The field survey was conducted by thoroughly searching the site. The survey was conducted with field visits on March 18, April 8, and April 25, 2002, all appropriate times during the growing season for the identification of upland and wetland species with the potential to occur on the site. The site visit took place when most of the target species were in flower and/or fruit and the remainder (the later-blooming species) were identifiable to genus. The site was surveyed by searching each of the small wetlands thoroughly and walking parallel transects at a 25-foot interval through the rest of the site, making a list of all species that could be identified on sight, and collecting all materials that were not identifiable on sight for examination under a microscope in the office. The spacing was appropriate because the low-growing vegetation did not interfere with the line of sight. All species were identified to a taxonomic level, either species or genus, which permitted an accurate decision regarding its status. The methods used were consistent with those required by the California Department of Fish and Game.
3.0. RESULTS

3.1. POTENTIAL HABITAT FOR SPECIAL-STATUS PLANT SPECIES

The presence of "potential habitat" for the federally listed plant species on the Santa Rosa Plain is one of the elements in the habitat evaluation process. Potential habitat is defined by the combination of vegetation, topographic, and hydrologic conditions.

3.1.1. Vegetation Conditions

Potential habitat for the plant species listed as federally endangered is characterized as:

1. areas supporting vernal pool indicator species, i.e., those plant species listed in Table 3-1 of the Vernal Pool Ecosystem Preservation Plan (CH2M Hill 1996), with a 10 percent relative cover, or

2. areas not dominated by weedy grasses, i.e., areas in which perennial plant species not listed in Table 3-1 and/or exotic grasses such as Hordeum marinum ssp. gussoneanum, Lolium perenne, Bromus hordaceus, etc. contribute less than 90 percent of the relative vegetation cover.

These criteria are not to be applied to the entire wetland area, since only a small portion may be suitable habitat. If any square meter area meets the above criteria (such as in the deepest portions of shallow ponds or in deeper parts of swales), this area and the entire wetland would be considered suitable habitat.

3.1.2. Topographic and Hydrologic Conditions

One or more of the following topographic or hydrologic conditions must exist in conjunction with the vegetation criteria for a wetland to be considered potential habitat:

1. the wetland area has not been entirely filled such that the wetland no longer floods or ponds (i.e., as a result of leveling) and the original topography no longer exists;

2. the wetland has an outlet barrier (is a pool) or occurs in depressional terrain (i.e., is a swale or drainage feature);

3. the wetland contains surface (standing or flowing) water during the rainy season in a normal rainfall year for seven days or more;

The following conditions indicate that a particular wetland is not potential habitat. The site does not meet the vegetation criteria and:

4. the wetland occurs on sloping ground (not the slopes of a swale or pond) and is not a swale
or swale-related drainage feature, such that no ponding or flooding occurs;

5. the wetland is irrigated, and contains standing water of natural or artificial origin, and the soils are saturated for more than 60 days between June 1 and October 1.

No potential habitat for the listed plant species occurs in the shallow depressional areas in the study area. Plant species listed in Table 3-1 of the Vernal Pool Ecosystem Preservation Plan contribute at least 10 percent relative cover in the large seasonal wetland in the southwestern part of the site.

3.2. SURVEY RESULTS

No potential habitat for any of the three federally listed plant species is present on the study area and none of the federally listed plant species listed in the table in Appendix A were observed on the project site during the visits conducted as part of the second-year survey. The site was surveyed in both 1997 (survey dates: March 18, March 31, and April 16, 1997; Stromberg 1997), and 2002 and the findings were negative in both years.

All plant species observed in both 1997 and 2002 during the survey of the property are listed in Appendix B.
4.0. REFERENCES


California Natural Diversity Data Base. 1994, 1995, 1996. Printed Data Reports of Data Base Searches (for other sites on the Santa Rosa Plain). California Department of Fish and Game, Natural Heritage Section.


Second-year Special-status Plant Survey,
2000 Burbank Avenue,
Santa Rosa, California

**APPENDIX A.**
Special-status Plant Species
with the Potential to Occur on the 2000 Burbank Avenue Site

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name</th>
<th>Status</th>
<th>Habitat Affinities</th>
<th>Blooming Period</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Alopecurus aequalis</em>&lt;br&gt;var. <em>sonomensis</em>&lt;br&gt;Sonoma alopecurus</td>
<td>USFWS: C2&lt;br&gt;CFDG: -&lt;br&gt;CNPS: 1A</td>
<td>Marshes, swamps, and scrub.</td>
<td>Feb-Apr</td>
<td>No suitable habitat occurs on the site. Species not found.</td>
<td></td>
</tr>
<tr>
<td><em>Amsinkia tenuiflora</em>&lt;br&gt;Bent-flowered fiddleneck</td>
<td>USFWS: -&lt;br&gt;CFDG: -&lt;br&gt;CNPS: 3</td>
<td>Annual grassland.</td>
<td>Mar-Jun</td>
<td>Annual grassland is suitable habitat. Not found.</td>
<td></td>
</tr>
<tr>
<td><em>Astragalus breviflorus</em>&lt;br&gt;Bent-flowered fiddleneck</td>
<td>USFWS: -&lt;br&gt;CFDG: -&lt;br&gt;CNPS: 3</td>
<td>Annual grassland, chaparral and woodland. Occurs on serpentine soils occasionally.</td>
<td>Apr-May</td>
<td>The annual grassland is suitable habitat. Not found.</td>
<td></td>
</tr>
<tr>
<td><em>Blechnum bakeri</em>&lt;br&gt;Baker’s blechnum</td>
<td>USFWS: E&lt;br&gt;CFDG: E&lt;br&gt;CNPS: 1b</td>
<td>Vernal pools and vernal swales.</td>
<td>Mar-Apr</td>
<td>Marginally suitable habitat is present on the site but the species was not found.</td>
<td></td>
</tr>
<tr>
<td><em>Cascada howelliana</em>&lt;br&gt;Bogg’s Lake dodder</td>
<td>USFWS: -&lt;br&gt;CFDG: -&lt;br&gt;CNPS: 4</td>
<td>Vernal pools.</td>
<td>Mar-Apr</td>
<td>Ferns; species found on many vernal pool species, particularly <em>Eryngium</em>. Not found.</td>
<td></td>
</tr>
<tr>
<td><em>Dowlingia humilis</em>&lt;br&gt;Dwarf downingia</td>
<td>USFWS: -&lt;br&gt;CFDG: -&lt;br&gt;CNPS: 1B</td>
<td>Vernal pools.</td>
<td>Mar-Apr</td>
<td>The deeper seasonal wetlands provide suitable habitat but the species was not found.</td>
<td></td>
</tr>
<tr>
<td><em>Fritillaria lilaecea</em>&lt;br&gt;Fragrant fritillary</td>
<td>USFWS: C2&lt;br&gt;CFDG: -&lt;br&gt;CNPS: 1B</td>
<td>Coastal scrub, valley grassland near the coast on heavy ultramafic clay soils.</td>
<td>Feb-Apr</td>
<td>Habitat generally not suitable on the site. Not found.</td>
<td></td>
</tr>
<tr>
<td><em>Fritillaria purdyi</em>&lt;br&gt;Purdy’s fritillary</td>
<td>USFWS: -&lt;br&gt;CFDG: -&lt;br&gt;CNPS: 4</td>
<td>Chaparral and valley grassland. Dry sites, generally on serpentine soils.</td>
<td>Mar-Jun</td>
<td>Habitat not suitable for the species. Not found.</td>
<td></td>
</tr>
<tr>
<td><em>Lasthenia burkei</em>&lt;br&gt;Burke’s goldfields</td>
<td>USFWS: E&lt;br&gt;CFDG: E&lt;br&gt;CNPS: 1B</td>
<td>Vernal pools and swales.</td>
<td>Apr-Jun</td>
<td>Suitable habitat is present on the site. Not found.</td>
<td></td>
</tr>
<tr>
<td><em>Linnaeas vinculans</em>&lt;br&gt;Sebastopol meadowfoam</td>
<td>USFWS: E&lt;br&gt;CFDG: E&lt;br&gt;CNPS: 1B</td>
<td>Vernal pools and swales.</td>
<td>Apr-Jun</td>
<td>Suitable habitat is present but the species was not found.</td>
<td></td>
</tr>
<tr>
<td><em>Navarretia pleiantha</em>&lt;br&gt;Many-flowered gilia</td>
<td>USFWS: C1&lt;br&gt;CFDG: E&lt;br&gt;CNPS: 1B</td>
<td>Vernal pools and swales.</td>
<td>May-Jun</td>
<td>Suitable habitat is present on the site but species was not found.</td>
<td></td>
</tr>
<tr>
<td><em>Perideridia gardneri</em>&lt;br&gt;ssp. <em>gardneri</em>&lt;br&gt;Gardner’s yampah</td>
<td>USFWS: C2&lt;br&gt;CFDG: -&lt;br&gt;CNPS: 1B</td>
<td>Vernal pools, seasonal wetland habitats.</td>
<td>Jun-Jul</td>
<td>The wetland habitat on the site provides suitable habitat. Species not found.</td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX A (Cont’d.).
Special-status Plant Species
with the Potential to Occur on the 2000 Burbank Avenue Site

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name</th>
<th>Status</th>
<th>Habitat Affinities</th>
<th>Blooming Period</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Pogogyne douglasii</em></td>
<td><em>sssp. parviflora</em></td>
<td>USFWS: C3c</td>
<td>Vernal pools, seasonal wetland habitats, including swales.</td>
<td>May-Jul</td>
<td>Suitable habitat is present. Not found.</td>
</tr>
<tr>
<td></td>
<td>Small-flowered messii</td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CNPS: 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Ranunculus lobii</em></td>
<td>Lobbi's buttercup</td>
<td>USFWS: -</td>
<td>Vernal pools and swales.</td>
<td>Feb-Apr</td>
<td>Suitable habitat is present in the seasonal wetlands. The species was not found.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CNPS: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Trifolium amoenum</em></td>
<td>Showy indian clover</td>
<td>USFWS: C2*</td>
<td>Annual grassland.</td>
<td>Apr-Jun</td>
<td>The annual grasslands on the site provide suitable habitat. Not found.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CNPS: 1A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:

Agencies - USFWS = U.S. Fish and Wildlife Service, CDFG = California Department of Fish and Game, CNPS = California Native Plant Society.

Federal Designations
E = Listed as Endangered by the Federal Government. T = Listed as Threatened by the Federal Government. C1 = Category 1 Candidate. C1* = Sufficient data are on file to support listing but taxon presumed extinct. C2 = Category 2 Candidate. C2* = Sufficient data to support federal listing lacking, taxon presumed extinct.

State Designations
E = Listed as Endangered. R = Listed as Rare.

CNPS Designations
List 1A = Species presumed extinct in California. List 1B = Species rare and endangered in California and elsewhere. List 2 = Species rare and endangered in California but more common elsewhere. List 3 = Species about which additional data are needed. List 4 = Species of limited distribution.
APPENDIX B.
Plant Species Observed During the 1997 and 2002 Surveys for
Special-status Plant Species,
2000 Burbank Avenue Site,
Santa Rosa, California

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Family</th>
<th>Scientific Name</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICOTYLEDONAE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anacardeaceae - Sumac Family</td>
<td><em>Toxicodendron diversiloba</em></td>
<td>Poison oak</td>
</tr>
<tr>
<td></td>
<td>Apiaceae - Parsley Family</td>
<td><em>Daucus carota</em></td>
<td>Queen Anne's lace</td>
</tr>
<tr>
<td></td>
<td>Asteraceae - Sunflower Family</td>
<td><em>Achyrachaena mollis</em></td>
<td>Blow-wives</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Anthemis cotula</em></td>
<td>Mayweed</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Baccharis pilularis var. consanguinea</em></td>
<td>Coyote brush</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Carduus pycreophilus</em></td>
<td>Italian thistle</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Chamomilla suaveolens</em></td>
<td>Pineapple weed</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Cichorium intybus</em></td>
<td>Cickory</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Cirsium vulgare</em></td>
<td>Bull thistle</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Hypocheris radicans</em></td>
<td>Rough cat's ear</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Lactuca serriola</em></td>
<td>Wild lettuce</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Picris echoides</em></td>
<td>Bristly oxtongue</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Senecio vulgaris</em></td>
<td>Common groundsel</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Tragopogon porrifolius</em></td>
<td>Salsify</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Xanthium strumarium</em></td>
<td>Cocklebur</td>
</tr>
<tr>
<td></td>
<td>Boraginaceae - Borage family</td>
<td><em>Plagiobothrys stipitus var. stipitus</em></td>
<td>Popcorn flower</td>
</tr>
<tr>
<td></td>
<td>Brassicaceae - Mustard Family</td>
<td><em>Brassica nigra</em></td>
<td>Black mustard</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Hirschfeldia incana</em></td>
<td>Mediterranean mustard</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Raphanus sativus</em></td>
<td>Wild radish</td>
</tr>
<tr>
<td></td>
<td>Callitricaceae - Water starwort Family</td>
<td><em>Callitriche marginata</em></td>
<td>Winged water starwort</td>
</tr>
</tbody>
</table>
APPENDIX B (CONT’D.).
Plant Species Observed During the 1997 and 2002 Surveys for
Special-status Plant Species,
2000 Burbank Avenue Site,
Santa Rosa, California

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Family</th>
<th>Scientific Name</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Campanulaceae - Bellflower Family</td>
<td>Downingia concolor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Caryophyllaceae - Pink Family</td>
<td>Cerastium arvense</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Spergularia rubra</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Convolvulaceae - Morning-glory Family</td>
<td>Convolvulus arvensis</td>
</tr>
<tr>
<td>Fabaceae</td>
<td>Pea Family</td>
<td>Lupinus bicolor</td>
<td>Annual lupine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lupinus nanus</td>
<td>Miniature lupine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medicago polymorpha</td>
<td>Bur-clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Melilotus alba</td>
<td>Sweet white clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trifolium depauperatum</td>
<td>Dwarf sack clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trifolium hirtum</td>
<td>Rose clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trifolium repens</td>
<td>Clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trifolium subterraneum</td>
<td>Subterranean clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vicia cracca</td>
<td>Vetch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vicia sativa</td>
<td>Vetch</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vicia villosa</td>
<td>Hairy vetch</td>
</tr>
<tr>
<td>Fagaceae</td>
<td>Oak Family</td>
<td>Quercus agrifolia</td>
<td>Coast live oak</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quercus lobata</td>
<td>Valley oak</td>
</tr>
<tr>
<td>Geraniaceae</td>
<td>Geranium Family</td>
<td>Erodium botrys</td>
<td>White-stemmed Filaree</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Erodium cicutarium</td>
<td>Red-stemmed Filaree</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Geranium dissectum</td>
<td>Cutleaf geranium</td>
</tr>
<tr>
<td>Lamiaceae</td>
<td>Mint Family</td>
<td>Marrubium vulgare</td>
<td>Horehound</td>
</tr>
<tr>
<td>CLASS</td>
<td>Family</td>
<td>Scientific Name</td>
<td>Common Name</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------</td>
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<td>-----------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Lythraceae</strong> - Loosestrife Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Lythrum hyssopifolium</em></td>
<td>Purple loosestrife</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Malvaceae</strong> - Mallow family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Malva neglecta</em></td>
<td>Mallow</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Onagraceae</strong> - Evening Primrose Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Epilobium sp.</em></td>
<td>Fireweed</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Plantaginaceae</strong> - Plantain Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Plantago lanceolata</em></td>
<td>English plantain</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Polygonaceae</strong> - Buckwheat Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Polygonum arenastrum</em></td>
<td>Knotweed</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Rumex acetosella</em></td>
<td>Sheep sorrel</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Primulaceae</strong> - Primrose Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Anagallis arvensis</em></td>
<td>Scarlet pimpernel</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ranunculaceae</strong> - Buttercup Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Ranunculus californicus</em></td>
<td>California buttercup</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Ranunculus muricatus</em></td>
<td>Spiny buttercup</td>
</tr>
<tr>
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<td></td>
<td><strong>Rosaceae</strong> - Rose Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Rubus discolor</em></td>
<td>Himalaya berry</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>MONOCOTYLEDONAE</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Juncaceae</strong> - Rush Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Juncus phaeocephalus</em></td>
<td>Brown-headed rush</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Juncus tenuis</em></td>
<td>Slender rush</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Liliaceae</strong> - Lily Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Brodiaea elegans</em></td>
<td>Harvest brodiaea</td>
</tr>
</tbody>
</table>
APPENDIX B (CONT’D.):
Plant Species Observed During the 1997 and 2002 Surveys for
Special-status Plant Species,
2000 Burbank Avenue Site,
Santa Rosa, California

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Scientific Name</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poaceae - Grass Family</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aira caryophyllea</em></td>
<td>Annual hairgrass</td>
<td></td>
</tr>
<tr>
<td><em>Avena fatua</em></td>
<td>Wild oat</td>
<td></td>
</tr>
<tr>
<td><em>Briza minor</em></td>
<td>Little rattlesnake grass</td>
<td></td>
</tr>
<tr>
<td><em>Bromus carinatus</em></td>
<td>Brome grass</td>
<td></td>
</tr>
<tr>
<td><em>Bromus diandrus</em></td>
<td>Ripgut brome</td>
<td></td>
</tr>
<tr>
<td><em>Bromus hordaceus</em></td>
<td>Soft chess</td>
<td></td>
</tr>
<tr>
<td><em>Bromus madritensis ssp. rubens</em></td>
<td>Red brome</td>
<td></td>
</tr>
<tr>
<td><em>Cynodon dactylon</em></td>
<td>Bermuda grass</td>
<td></td>
</tr>
<tr>
<td><em>Danthonia californica</em></td>
<td>California oatgrass</td>
<td></td>
</tr>
<tr>
<td><em>Hordeum brachyantherum</em></td>
<td>Meadow barley</td>
<td></td>
</tr>
<tr>
<td><em>Hordeum marinum ssp. gussoneanum</em></td>
<td>Mediterranean barley</td>
<td></td>
</tr>
<tr>
<td><em>Hordeum murinum ssp. leporinum</em></td>
<td>Hare barley</td>
<td></td>
</tr>
<tr>
<td><em>Lolium perenne</em></td>
<td>Perennial ryegrass</td>
<td></td>
</tr>
<tr>
<td><em>Phalaris aquatica</em></td>
<td>Harding grass</td>
<td></td>
</tr>
<tr>
<td><em>Pleurophogon californicus</em></td>
<td>California semaphore grass</td>
<td></td>
</tr>
<tr>
<td><em>Poa annua</em></td>
<td>Annual bluegrass</td>
<td></td>
</tr>
<tr>
<td><em>Taeniatherum caput-medusae</em></td>
<td>Medusahead grass</td>
<td></td>
</tr>
<tr>
<td><em>Vulpia bromoides</em></td>
<td>Six-weeks fescue</td>
<td></td>
</tr>
</tbody>
</table>
SPECIAL-STATUS PLANT SURVEY
2000 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

Submitted to:

Mr. Michael Gest
Brookwood Mortgage and Investment
2635 Cleveland, Suite 8
Santa Rosa, CA 95403

Prepared by:

Laurence P. Stromberg, Ph.D.
Wetlands Consultant
59 Jewell Street
San Rafael, CA 94901
(415) 721-0700

April 18, 1997
SPECIAL-STATUS PLANT SURVEY
2000 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

1.0. INTRODUCTION

1.1. PROJECT SITE LOCATION AND DESCRIPTION

1.1.1. Project Site Location

The project site is approximately 6.8 acres located in southwest Santa Rosa, on Burbank Avenue between Sebastopol Road and Hearn Avenue (Figure 1). The site is in the portion of the Santa Rosa Plain over which the Corps of Engineers has conditioned the issuance of Nationwide Permit 26, for the discharge of fill into wetlands that are isolated and/or above the headwaters. The site is also within the area that would be covered by the general permit for which the City of Santa Rosa submitted an application to the Corps of Engineers.

1.1.2. Project Site Description

The site is abandoned pasture land. Some farm outbuildings occur along the northern property line. An oval ring on the aerial photograph suggests that the site appears to have been most recently used to ride horses. A few scattered fruit trees indicate that the site may have at one time supported an orchard. Blackberry trails along the fences and forms thickets along the north and east property lines.

1.2. PHYSICAL AND HYDROLOGIC CONDITIONS

1.2.1. Topography and Drainage

The site is relatively level. The total difference in elevation appears to be less than one foot, expressed over the whole site in the very gentle slope to the west and locally in a small number of shallow depressions.

The site does not have any natural surface drainage features such as defined channels or swales, and the surface topography appears to be undisturbed. Therefore, while the development of the surrounding properties has changed the local overland flow processes, it has not modified any patterns of concentrated surface runoff.

1.2.2. Soils

The soils on the project site are mapped by the Soil Conservation Service (U. S. Soil Conservation Service 1992) as belonging to the Clear Lake series. The terrain in which the Clear Lake series is mapped is typically level, characterized by gentle surface gradients and little topographic variation.
Base: Map of Southwest Santa Rosa 1-96, Northeast Roseland Annexation Area (Shaded), City of Santa Rosa Department of Community Development, August 22, 1996.

Laurence P. Stromberg, Ph. D. Wetlands Consultant

Figure 1. Regional Location Map
The soils possess clay surface and subsurface horizons and are generally characterized by low rates of infiltration and percolation and water can remain perched at or near the surface, with ponding occurring in depressional areas. Clear Lake clay series is considered a vernal pool soil by the Vernal Pool Task Force (CH2M Hill 1995).

The Soil Conservation Service (reorganized and renamed the National Resource Conservation Service) field office in Santa Rosa has developed a list of hydric soils that occur in Sonoma County. The Clear Lake clay series is listed or classified as a hydric soil. The term “hydric soil” is defined in section 3.1.2.2.

1.3. WETLANDS

The FAC-neutral test was used to delineate the wetlands at the parcel at 2000 Burbank Avenue. The FAC-neutral test is one in which FAC species with an equal likelihood of occurring in wetlands and uplands are considered neutral in deciding whether the vegetation at a site is hydrophytic. FAC species are ignored and the decision is made on the other species present (Environmental Laboratory 1987). The test is useful when the delineator questions the indicator status of particular plant species or where the outcome of a delineation rests on decisions about the vegetation in an area where the site occurs in what is not an obvious wetland. The Corps manual provides guidance that the Corps must be confident that the area is a wetland to take jurisdiction when the vegetation is dominated by FAC species.

The wetland features on the site include one vernal pool and other seasonal wetlands (Figure 2). The total area is approximately 1,059 sf or 0.045 acres, 840 sf (0.019 ac) of which are vernal pool habitat and 219 sf (0.005 ac) of which are other seasonal wetlands. The vernal pool fits the profile for vernal pools in Clear Lake clay soils, displaying evidence of regular inundation and potential ponding to a depth exceeding 0.5 ft. Based on dead plant material from the 1995-96 growing season and seedlings and young plants that initiated growth in the 1996-97 growing season, the vegetation is depauperate, containing very few of the species characteristic of vernal pools on the Santa Rosa Plain (listed in Table 3-1 of the Vernal Pool Ecosystem Preservation Plan). The dominant species appear to include perennial ryegrass, curly dock, and bristly oxtongue.

The seasonal wetlands do not appear to be of natural origin. Although minimal size is not a conclusive determinant for vernal pools, the other depressional areas appear to have resulted from excavation because of their shape. Regardless of the origin, the wetlands in the other depressions support the same plant species and are compositionally similar to the vernal pool.
2.0. METHODS

Target special-status species were identified by request for a search of records at the California Natural Diversity Data Base. The species that have the potential to occur in the region surrounding the site are listed in the table in Appendix A. The three primary species for which the survey was conducted are Sebastopol meadowfoam (*Limnanthes vinculans*), Sonoma sunshine (*Blemnosperma bakeri*), and Burke’s goldfields (*Lasthenia burkei*). Several species are listed in the table in Appendix A but many other special-status species that occur in the region are limited to habitats which do not occur on the project site and were omitted from the list. Some species that occur most frequently in chaparral and/or oak woodland were excluded because such habitats are not present.

The field survey was conducted by thoroughly searching the site. The survey was conducted with field visits on March 18, March 31, and April 16, 1997, all appropriate times during the growing season for the identification of upland and wetland species with the potential to occur on the site. The site visit took place when most of the target species were in flower and/or fruit and the remainder (the later-blooming species) were identifiable to genus. The site was surveyed by searching each of the small wetlands thoroughly and walking parallel transects at a 25-foot interval through the rest of the site, making a list of all species that could be identified on sight, and collecting all materials that were not identifiable on sight for examination under a microscope in the office. The spacing was appropriate because the low-growing vegetation did not interfere with the line of sight. All species were identified to a taxonomic level, either species or genus, which permitted an accurate decision regarding its status. The methods used were consistent with those required by the California Department of Fish and Game.
3.0. RESULTS

3.1. GENERAL HABITAT CONDITIONS

The vegetation on the site is primarily an annual grassland. Some abandoned fruit trees and scattered coyote bush (*Baccharis pilularis* var. *consanguinea*) are present, a thicket of blackberry (*Rubus discolor*) stands at the east end of the property. The annual grassland is dominated by FAC wetland species such as Mediterranean barley (*Hordeum marinum* var. *grissoneanum*), ryegrass (*Lolium perenne*), and bristly oxtongue (*Picris echioides*). The indicator status of the Mediterranean barley is reasonably accepted but ryegrass occurs on upland sites in areas that are not typically investigated by Corps personnel because they do not support wetlands of any kind. Dan Martel of the Corps agrees that ryegrass occurs on heavy clay soils that are not necessarily hydric (Martel personal communication). Bristly oxtongue also tends to occur on upland sites that have been disturbed and displays a tendency to become established in soils where the moisture content whether or not they are hydric. The disturbance can result from any of a number of activities, including discing, scraping of surface vegetation, etc. In nearby Windsor, the Corps recently verified a wetland delineation on a site where bristly oxtongue is one of the dominant species on mixed imported fill that is developing upland characteristics, omitting many virtually all of the areas dominated by the oxtongue.

The subdominant species that occur in the annual grassland include ripgut brome (*Bromus diandrus*), soft chess (*Bromus hordaceus*), hedge bindweed (*Convolvulus arvensis*), teasel (*Dipsacus sylvestris*), cutleaf geranium (*Geranium dissectum*), Harding grass (*Phalaris tuberosa*), curly dock (*Rumex crispus*), and vetch (*Vicia cracca*). Table 1 on the following page contains a list of species that occur on the site and presents their wetland indicator status.

3.2. SURVEY RESULTS

None of the upland or wetland plant species with the potential to occur on the project site was observed during the three field visits. For the wetland species, a second field visit next year would be necessary if the two-year survey requirement established for the three federally listed vernal pool species is to be satisfied and any development interest can take advantage of the lesser wetland mitigation requirement for wetlands not containing these species.
Table 1. Plant Species Observed in Annual Grassland Habitat on the Burbank Avenue Site

<table>
<thead>
<tr>
<th>Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Avena fatua</em></td>
<td>UPL</td>
</tr>
<tr>
<td><em>Baccharis pilularis spp. consanguinea</em></td>
<td>UPL</td>
</tr>
<tr>
<td><em>Bromus diandrus</em></td>
<td>UPL</td>
</tr>
<tr>
<td><em>Bromus hordeaceus</em></td>
<td>FACU</td>
</tr>
<tr>
<td><em>Bromus secalinus</em></td>
<td>NL</td>
</tr>
<tr>
<td><em>Convolvulus arvensis</em></td>
<td>UPL</td>
</tr>
<tr>
<td><em>Daucus carota</em></td>
<td>NL</td>
</tr>
<tr>
<td><em>Dipsacus sylvestris</em></td>
<td>NL</td>
</tr>
<tr>
<td><em>Epilobium paniculatum</em></td>
<td>NL</td>
</tr>
<tr>
<td><em>Erodium botrys</em></td>
<td>UPL</td>
</tr>
<tr>
<td><em>Erodium moschatum</em></td>
<td>UPL</td>
</tr>
<tr>
<td><em>Geranium dissectum</em></td>
<td>UPL</td>
</tr>
<tr>
<td><em>Hordeum marinum ssp gussoneanum</em></td>
<td>FAC</td>
</tr>
<tr>
<td><em>Juncus phaeocephalus</em></td>
<td>FACW</td>
</tr>
<tr>
<td><em>Lolium perenne</em></td>
<td>FAC</td>
</tr>
<tr>
<td><em>Phalaris tuberosa</em></td>
<td>FACU</td>
</tr>
<tr>
<td><em>Pieris echioides</em></td>
<td>FAC</td>
</tr>
<tr>
<td><em>Plantago lanceolata</em></td>
<td>NL</td>
</tr>
<tr>
<td><em>Quercus lobata</em></td>
<td>FAC</td>
</tr>
<tr>
<td><em>Ranunculus californicus</em></td>
<td>FAC</td>
</tr>
<tr>
<td><em>Rubus discolor</em></td>
<td>FAC</td>
</tr>
<tr>
<td><em>Rumex crispus</em></td>
<td>FACW-</td>
</tr>
<tr>
<td><em>Rumex pilcher</em></td>
<td>FAC-</td>
</tr>
<tr>
<td><em>Sisymbrium irio</em></td>
<td>UPL</td>
</tr>
<tr>
<td><em>Tragopogon porrifolius</em></td>
<td>NL</td>
</tr>
<tr>
<td><em>Trifolium repens</em></td>
<td>FACU+</td>
</tr>
<tr>
<td><em>Vicia cracca</em></td>
<td>UPL</td>
</tr>
</tbody>
</table>

Note: the three species printed in bold typeface are dominants. The total cover of the other species is probably less than five percent.
4.0. REFERENCES


California Natural Diversity Data Base. 1994, 1995, 1996. Printed Data Reports of Data Base Searches (for other sites on the Santa Rosa Plain). California Department of Fish and Game, Natural Heritage Section.


Appendix A.
Special-status Plant Species
with the Potential to Occur on the 2000 Burbank Avenue Site

<table>
<thead>
<tr>
<th>Scientific name / Common name</th>
<th>Status</th>
<th>Habitat Affinities</th>
<th>Blooming Period</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alopecurus aequalis var. sonomensis</td>
<td>USFWS: C2</td>
<td>Marshes, swamps, and scrub.</td>
<td>Feb-Apr</td>
<td>The ditch sections are the only suitable habitat on site. Not found.</td>
</tr>
<tr>
<td>Sonoma alopecurus</td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 1A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anisakia lunaris Bent-flowered fiddleneck</td>
<td>USFWS: -</td>
<td>Annual grassland.</td>
<td>Mar-Jun</td>
<td>Annual grassland is suitable habitat. Not found.</td>
</tr>
<tr>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Astragalus breviflora Bent-flowered fiddleneck</td>
<td>USFWS: -</td>
<td>Annual grassland, chaparral and woodland. Occurs on serpentine soils occasionally.</td>
<td>Apr-May</td>
<td>The annual grassland is suitable habitat. Not found.</td>
</tr>
<tr>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blennosperma bakeri Baker's blennosperma</td>
<td>USFWS: E</td>
<td>Vernal pools and vernal swales.</td>
<td>Mar-Apr</td>
<td>Marginally suitable habitat present on site. Not found.</td>
</tr>
<tr>
<td></td>
<td>CDFG: E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 1b</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Castilleja breweri Begg's Lake dodder</td>
<td>USFWS: -</td>
<td>Vernal pools.</td>
<td>Mar-Apr</td>
<td>Parasitic species found on many vernal pool species, particularly Eryngium. Not found.</td>
</tr>
<tr>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Downingtonia humilis Dwarf downingia</td>
<td>USFWS: -</td>
<td>Vernal pools.</td>
<td>Mar-Apr</td>
<td>Vernal pools and swales are suitable habitat. Not found.</td>
</tr>
<tr>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 1b</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fritillaria ilivecen Fragrant fritillary</td>
<td>USFWS: C2</td>
<td>Coastal scrub, valley grassland near the coast on heavy ultramafic clay soils.</td>
<td>Feb-Apr</td>
<td>Habitat generally not suitable on the site. Not found.</td>
</tr>
<tr>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fritillaria purdyi Purdy's fritillary</td>
<td>USFWS: -</td>
<td>Chaparral and valley grassland.</td>
<td>Mar-Jun</td>
<td>Habitat not suitable for the species. Not found.</td>
</tr>
<tr>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lasthenia burkei Burk's goldfields</td>
<td>USFWS: E</td>
<td>Vernal pools and vernal swales.</td>
<td>Apr-Jun</td>
<td>Suitable habitat is present on the Site. Not found.</td>
</tr>
<tr>
<td></td>
<td>CDFG: E</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix A.
Special-status Plant Species
with the Potential to Occur on the 2000 Burbank Avenue Site

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name</th>
<th>Status</th>
<th>Habitat Affinities</th>
<th>Blooming Period</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Aloepecurus aequalis</em> var. <em>sonomensis</em></td>
<td>Sonoma aloepecurus</td>
<td>USFWS: C2, CDFG: -, CNPS: 1A</td>
<td>Marshes, swamps, and scrub.</td>
<td>Feb-Apr</td>
<td>The ditch sections are the only suitable habitat on site. Not found.</td>
</tr>
<tr>
<td><em>Astrolechia brevleri</em></td>
<td>Benti-flowered fiddleneck</td>
<td>USFWS: -, CDFG: -, CNPS: 3</td>
<td>Annual grassland, chaparral and woodland. Occurs on serpentine soils occasionally.</td>
<td>Apr-May</td>
<td>The annual grassland is suitable habitat. Not found.</td>
</tr>
<tr>
<td><em>Downingia humilis</em></td>
<td>Dwarf downingia</td>
<td>USFWS: -, CDFG: -, CNPS: 1b</td>
<td>Vernal pools.</td>
<td>Mar-Apr</td>
<td>Vernal pools and swales are suitable habitat. Not found.</td>
</tr>
<tr>
<td><em>Fritillaria lilaecea</em></td>
<td>Fragrant fritillary</td>
<td>USFWS: C2, CDFG: -, CNPS: 1R</td>
<td>Coastal scrub, valley grassland near the coast on heavy ultramafic clay soils.</td>
<td>Feb-Apr</td>
<td>Habitat generally not suitable on the site. Not found.</td>
</tr>
<tr>
<td><em>Lasthenia burkei</em></td>
<td>Burke's goldfields</td>
<td>USFWS: E, CDFG: E, CNPS: 1B</td>
<td>Vernal pools and swales.</td>
<td>Apr-Jun</td>
<td>Suitable habitat is present on the site. Not found.</td>
</tr>
</tbody>
</table>
Appendix D – Endangered Species


- **Hazel Mitigation Preserve, LLC.** *Bill of Sale & Payment Receipt: 10.00 Acres of California Tiger Salamander Credits.* Greenbrae, CA : s.n., June 1, 2006 and June 2, 2006. Army Corps Number: 22495N.

- **Tri Development Services, LLC.** *Notarized Bill of Sale, Preservation Acreage, Davis Preserve, 0.2 Acre for Project Burbank Avenue Apartments.* Greenbrae, CA : s.n., March 15, 2006. First American Title Company Escrow No. 1938155.

- **U.S. Fish & Wildlife Service and the California Department of Fish & Game.** *Letter to Mr. Jeffrey Kolin, City Manager, City of Santa Rosa.* Sacramento, Yountville : s.n., June 29, 2005.

January 21, 2016

Mr. Pascal Sisich
Burbank Housing Development Corporation
790 Sonoma Avenue
Santa Rosa, CA 95404

Dear Mr. Sisich:

Subject: Incidental Take Permit for 2081-2015-025-03 Crossroads Project, Sonoma County

Enclosed you will find two originals of the Incidental Take Permit for the above referenced project, which have been signed by the California Department of Fish and Wildlife (CDFW). Please read the permit carefully, sign the acknowledgement on both copies of the permit, and return one original no later than 30 days from CDFW signature and prior to initiation of ground-disturbing activities to:

Habitat Conservation Planning Branch
California Department of Fish and Wildlife
1416 Ninth Street, Suite 1260
Sacramento, CA 95814

You are advised to keep the other original signature permit in a secure location and distribute copies to appropriate project staff responsible for ensuring compliance with the conditions of the permit. Note that you are required to comply with certain conditions of approval prior to initiation of ground-disturbing activities. Additionally, a copy of the permit must be maintained at the project work site and made available for inspection by CDFW staff when requested.

The permit will not take effect until the signed acknowledgment is received by CDFW. If you wish to discuss these instructions or have questions regarding the permit, please contact Ms. Stephanie Buss, Senior Environmental Scientist (Specialist), at (707) 944-5502; or Mr. Craig Weightman, Environmental Program Manager, at (707) 944-5577.

Sincerely,

Scott Wilson
Regional Manager
Bay Delta Region

Enclosures

cc: California Department of Fish and Wildlife
Ryan Mathis – Habitat Conservation Planning Branch, Sacramento
Stephanie Buss – Bay Delta Region, Napa
Craig Weightman – Bay Delta Region, Napa

Conserving California’s Wildlife Since 1870
California Department of Fish and Wildlife
Bay Delta Region
7329 SILVERADO TRAIL
NAPA, CA 94558

California Endangered Species Act
Incidental Take Permit No. 2081-2015-025-03

CROSSROADS PROJECT

Authority: This California Endangered Species Act (CESA) incidental take permit (ITP) is issued by the California Department of Fish and Wildlife (CDFW) pursuant to Fish and Game Code section 2081, subdivisions (b) and (c), and California Code of Regulations, Title 14, section 783.0 et seq. CESA prohibits the take of any species of wildlife designated by the California Fish and Game Commission as an endangered, threatened, or candidate species. CDFW may authorize the take of any such species by permit if the conditions set forth in Fish and Game Code section 2081, subdivisions (b) and (c) are met. (See Cal. Code Regs., tit. 14, § 783.4).

Permittee: Burbank Housing Development Corporation

Principal Officer: Pascal Sisich, Director of Housing Development
(707) 526-9782

Mailing Address: 790 Sonoma Avenue
Santa Rosa, CA 95404

Effective Date and Expiration Date of this ITP:
This ITP shall be executed in duplicate original form and shall become effective once a duplicate original is acknowledged by signature of the Permittee on the last page of this ITP and returned to CDFW’s Habitat Conservation Planning Branch at the address listed in the Notices section of this ITP. Unless renewed by CDFW, this ITP’s authorization to take the Covered Species shall expire on December 31, 2020.

Notwithstanding the expiration date on the take authorization provided by this ITP, Permittee’s obligations pursuant to this ITP do not end until CDFW accepts as complete the Permittee’s Final Mitigation Report required by Condition of Approval 6.7 of this ITP.

Project Location:
The Crossroads (Project) is located 1980 and 2010 Burbank Avenue within the City of Santa Rosa, Sonoma County (See Figure 1). The Project is located approximately 0.8 miles west of U.S. Highway 101 at approximately -122° 43’ 57.52” North, 38° 25’ 06.50 West. The Project site is bounded by Burbank Avenue to the west and Biwama Drive to the east.

1 Pursuant to Fish and Game Code section 86, “take’ means hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill.” (See also Environmental Protection Information Center v. California Department of Forestry and Fire Protection (2008) 44 Cal.4th 459, 507 (for purposes of incidental take permitting under Fish and Game Code section 2081, subdivision (b), “take’ … means to catch, capture or kill”)).

2 “The definition of an endangered, threatened, and candidate species for purposes of CESA are found in Fish and Game Code sections 2082, 2067, and 2068, respectively.

Rev. 2015.3.6.
Project Description:
The Project includes the development of 4.85 acres of undeveloped land into 79 units of affordable multi-family rental homes. Project activities include excavating and grading of the entire Project site, tree removal, construction of multi-family rental homes, parking spaces, community courtyards, a tot lot play area, and a 2,980-square-foot community building, and other activities.

Covered Species Subject to Take Authorization Provided by this ITP:
This ITP covers the following species:

<table>
<thead>
<tr>
<th>Name</th>
<th>CESA Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>California tiger salamander (Ambystoma californiense)</td>
<td>Threatened3</td>
</tr>
</tbody>
</table>

This species and only this species is the “Covered Species” for the purposes of this ITP.

Impacts of the Taking on Covered Species:
Project activities and their resulting impacts are expected to result in the incidental take of individuals of the Covered Species. The activities described above expected to result in incidental take of individuals of the Covered Species include excavation, grading, and vehicular movement (Covered Activities).

Incidental take of individuals of the Covered Species in the form of mortality (“kill”) may occur as a result of Covered Activities such as crushing, entombing, or translocation. Incidental take of individuals of the Covered Species may also occur from the Covered Activities in the form of pursue, catch, capture, or attempt to do so of the Covered Species from the Designated Biologist’s attempts to capture and translocate the Covered Species. The areas where authorized take of the Covered Species is expected to occur include: 1980 and 2010 Burbank Avenue (collectively, the Project Area).

The Project is expected to cause the permanent loss of 4.85 acres of habitat for the Covered Species. Impacts of the authorized taking also include adverse impacts to the Covered Species related to temporal losses, increased habitat fragmentation and edge effects, and the Project’s incremental contribution to cumulative impacts (indirect impacts). These impacts include: displacement from preferred habitat, increased competition for food and space, and increased vulnerability to predation, capture and relocation.

Incidental Take Authorization of Covered Species:
This ITP authorizes incidental take of the Covered Species and only the Covered Species. With respect to incidental take of the Covered Species, CDFW authorizes the Permittee, its employees, contractors, and agents to take Covered Species incidentally in carrying out the Covered Activities, subject to the limitations described in this section and the Conditions of Approval identified below. This ITP does not authorize take of Covered Species from activities outside the scope of the Covered Activities, take of Covered Species outside of the Project Area, take of Covered Species resulting from violation of this ITP, or intentional take of Covered Species except for capture and relocation of Covered Species as authorized by this ITP.

---

Conditions of Approval:
Unless specified otherwise, the following measures apply to all Covered Activities within the Project Area, including areas used for vehicular, ingress and egress, staging and parking that may cause take. CDFW’s issuance of this ITP and Permittee’s authorization to take the Covered Species are subject to Permittee’s compliance with and implementation of the following Conditions of Approval:

1. **Legal Compliance**: Permittee shall comply with all applicable federal, state, and local laws in existence on the effective date of this ITP or adopted thereafter.

2. **CEQA Compliance**: Permittee shall implement and adhere to the mitigation measures related to the Covered Species in the Biological Resources section of the Mitigated Negative Declaration (File No.: PLP09-0101 ) adopted by Sonoma County Permit and Resource Management Department on April 5, 2011 as lead agency for the Project pursuant to the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.).

3. **ESA Compliance**: Permittee shall implement and adhere to the terms and conditions related to the Covered Species in the Formal Consultation on the Proposed Burbank Avenue Housing Project at 1980 and 2010 Burbank Avenue, Santa Rosa, Sonoma County, California (File No.: 1-1-06-F-0227) for the Project pursuant to the Federal Endangered Species Act (ESA). For purposes of this ITP, where the terms and conditions for the Covered Species in the federal authorization are less protective of the Covered Species or otherwise conflict with this ITP, the conditions of approval set forth in this ITP shall control.

4. **ITP Time Frame Compliance**: Permittee shall fully implement and adhere to the conditions of this ITP within the time frames set forth below and as set forth in the Mitigation Monitoring and Reporting Program (MMRP), which is included as Attachment 1 to this ITP.

5. **General Provisions**:

5.1. **Designated Representative**: Before starting Covered Activities, Permittee shall designate a representative (Designated Representative) responsible for communications with CDFW and overseeing compliance with this ITP. Permittee shall notify CDFW in writing before starting Covered Activities of the Designated Representative’s name, business address, and contact information, and shall notify CDFW in writing if a substitute Designated Representative is selected or identified at any time during the term of this ITP.

5.2. **Designated Biologist**: Permittee shall submit to CDFW in writing the name, qualifications, business address, and contact information of a biological monitor (Designated Biologist) at least 30 days before starting Covered Activities. Permittee shall ensure that the Designated Biologist is knowledgeable and experienced in the biology, natural history, collecting and handling of the Covered Species. The Designated Biologist shall be responsible for monitoring Covered Activities to help minimize and fully mitigate or avoid the incidental take of individual Covered Species and to minimize disturbance of Covered Species’ habitat. Permittee shall obtain CDFW approval of the Designated Biologist in writing before starting Covered Activities, and shall also obtain approval in advance in writing if the Designated Biologist must be changed.
5.3. **Designated Biologist Authority.** To ensure compliance with the Conditions of Approval of this ITP, the Designated Biologist shall have authority to immediately stop any activity that does not comply with this ITP, and/or to order any reasonable measure to avoid the unauthorized take of an individual of the Covered Species.

5.4. **Education Program.** Permittee shall conduct an education program for all persons employed or otherwise working in the Project Area before performing any work. The program shall consist of a presentation from the Designated Biologist that includes a discussion of the biology and general behavior of the Covered Species, information about the distribution and habitat needs of the Covered Species, sensitivity of the Covered Species to human activities, its status pursuant to CESA including legal protection, recovery efforts, penalties for violations and Project-specific protective measures described in this ITP. Permittee shall provide interpretation for non-English speaking workers, and the same instruction shall be provided to any new workers before they are authorized to perform work in the Project Area. Permittee shall prepare and distribute wallet-sized cards or a fact sheet handout containing this information for workers to carry in the Project Area. Upon completion of the program, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees that will be conducting work in the Project Area.

5.5. **Construction Monitoring Notebook.** The Designated Biologist shall maintain a construction-monitoring notebook on-site throughout the construction period, which shall include a copy of this ITP with attachments and a list of signatures of all personnel who have successfully completed the education program. Permittee shall ensure a copy of the construction-monitoring notebook is available for review at the Project site upon request by CDFW.

5.6. **Trash Abatement.** Permittee shall initiate a trash abatement program before starting Covered Activities and shall continue the program for the duration of the Project. Permittee shall ensure that trash and food items are contained in animal-proof containers and removed at least once every three days to avoid attracting opportunistic predators such as ravens, coyotes, and feral dogs.

5.7. **Dust Control.** Permittee shall implement dust control measures during Covered Activities to facilitate visibility for monitoring of the Covered Species by the Designated Biologist. Permittee shall keep the amount of water used to the minimum amount needed, and shall not allow water to form puddles.

5.8. **Erosion Control Materials.** Permittee shall prohibit use of erosion control materials potentially harmful to Covered Species and other species, such as monofilament netting (erosion control matting) or similar material, in potential Covered Species' habitat.

5.9. **Delineation of Project Area.** Before starting Covered Activities along each part of the route in active construction, Permittee shall clearly delineate the boundaries of the Project Area with fencing, stakes, or flags. Permittee shall restrict all Covered Activities to within the
fenced, staked, or flagged areas. Permittee shall maintain all fencing, stakes, and flags until the completion of Covered Activities in that area.

5.10. **Delineation of Habitat.** Permittee shall clearly delineate habitat of the Covered Species within the Project Area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species’ habitat.

5.11. **Project Access.** Project-related personnel shall not cross Covered Species’ habitat outside of or en route to the Project Area. Permittee shall ensure that vehicle speeds do not exceed 15 miles per hour to avoid Covered Species. If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to this ITP, among other reasons, if additional take of Covered Species will occur as a result of the Project modification.

5.12. **Staging Areas.** Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas.

5.13. **Hazardous Waste.** Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area and shall properly contain and dispose of any unused or leftover hazardous products off-site.

5.14. **CDFW Access.** Permittee shall provide CDFW staff with reasonable access to the Project and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.

5.15. **Refuse Removal.** Upon completion of Covered Activities, Permittee shall remove from the Project Area and properly dispose of all construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.

6. **Monitoring, Notification and Reporting Provisions:**

6.1. **Notification Before Commencement.** The Designated Representative shall notify CDFW 14 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.

6.2. **Notification of Non-compliance.** The Designated Representative shall immediately notify CDFW in writing if it determines that the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The
Designated Representative shall report any non-compliance with this ITP to CDFW within 24 hours.

6.3. **Compliance Monitoring.** The Designated Biologist shall be on-site daily when Covered Activities occur. The Designated Biologist shall conduct compliance inspections to (1) minimize incidental take of the Covered Species; (2) prevent unlawful take of species; (3) check for compliance with all measures of this ITP; (4) check all exclusion zones; and (5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area. The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing: oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP. The Designated Biologist shall conduct compliance inspections a minimum of once per week during periods of inactivity and after excavation and grading are completed.

6.4. **Quarterly Compliance Report.** The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 6.3 into a Quarterly Compliance Report and submit it to CDFW along with a copy of the MMRP table with notes showing the current implementation status of each mitigation measure. Quarterly Compliance Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW’s Regional Representative. At the time of this ITP’s approval, the CDFW Regional Representative is Stephanie Buss (stephanie.buss@wildlife.ca.gov). CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permitee in writing of the new reporting schedule.

6.5. **Annual Status Report.** Permitee shall provide CDFW with an Annual Status Report (ASR) no later than January 31 of every year beginning with issuance of this ITP and continuing until CDFW accepts the Final Mitigation Report identified below. Each ASR shall include, at a minimum: (1) a summary of all Quarterly Compliance Reports for that year identified in Condition of Approval 7.4; (2) a general description of the status of the Project Area and Covered Activities, including actual or projected completion dates, if known; (3) a copy of the table in the MMRP with notes showing the current implementation status of each mitigation measure; (4) an assessment of the effectiveness of each completed or partially completed mitigation measure in avoiding, minimizing and mitigating Project impacts; (5) all available information about Project-related incidental take of the Covered Species; (6) an accounting of the number of acres subject to permanent disturbance, both for the prior calendar year, and a total since ITP issuance; and (7) information about other Project impacts on the Covered Species.

6.6. **CNDDB Observations.** The Designated Biologist shall submit all observations of Covered Species to CDFW’s California Natural Diversity Database (CNDDB) within 60 calendar days of the observation and the Designated Biologist shall include copies of the submitted forms with the next Quarterly Compliance Report or ASR, whichever is submitted first relative to the observation.
6.7. **Final Mitigation Report.** No later than 45 days after completion of all mitigation measures, Permittee shall provide CDFW with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Quarterly Compliance Reports and all ASRs; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP’s Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.

6.8. **Notification of Take or Injury.** Permittee shall immediately notify the Designated Biologist if a Covered Species is taken or injured by a Project-related activity, or if a Covered Species is otherwise found dead or injured within the vicinity of the Project. The Designated Biologist or Designated Representative shall provide initial notification to CDFW by calling the Regional Office at (707) 944-5500. The initial notification to CDFW shall include information regarding the location, species, and number of animals taken or injured and the ITP Number. Following initial notification, Permittee shall send CDFW a written report within two calendar days. The report shall include the date and time of the finding or incident, location of the animal or carcass, and if possible provide a photograph, explanation as to cause of take or injury, and any other pertinent information.

7. **Take Minimization Measures:**

The following requirements are intended to ensure the minimization of incidental take of Covered Species in the Project Area during Covered Activities. Permittee shall implement and adhere to the following conditions to minimize take of Covered Species:

7.1. **Pre-construction surveys.** Prior to the start of Covered Activities, the Designated Biologist shall perform a pre-construction survey within the boundaries of the Project area.

7.2. **Grading and clearing.** Grading, excavation, and clearing shall be conducted between April 15 and October 15 during daylight hours and during periods of dry weather.

7.3. **Vegetation trimming.** In areas of tall grass or vegetation, Permittee shall trim vegetation to a height of no greater than six inches (6") prior to construction.

7.4. **Wildlife checks.** Before the start of work each morning, the Designated Biologist shall check for wildlife under any equipment such as vehicles and stored pipes. The Designated Biologist shall check all excavated steep-walled holes or trenches greater than one-foot deep for any wildlife. The Designated Biologist shall survey the areas graded for any wildlife each morning. Wildlife shall be removed by the Designated Biologist and translocated to a safe location (see Condition of Approval 5.7).

7.5. **Trench escape.** To prevent inadvertent entrapment of wildlife during construction and
periods of inactivity, the Designated Biologist shall ensure all excavated trenches and holes are provided with one or more escape ramps prior to sunrise each morning.

7.6. **Temporary Barrier.** Permittee shall install and maintain temporary barriers to prevent Covered Species from moving into the Project Area. The barrier may be removed during daily construction activities and shall be replaced every night. The barrier shall remain in place every evening until all Covered Activities have been completed. The Designated Biologist shall inspect the barrier daily and the Permittee shall maintain and repair as necessary to ensure that the barriers are functional.

7.7. **Covered Species Relocation.** The Designated Biologist shall relocate the Covered Species found within the Project Area to appropriate habitat approved by the U.S. Fish and Wildlife Service (USFWS) and CDFW and monitor the Covered Species until it is determined that the Covered Species is not imperiled by predators or other dangers. The captured Covered Species shall not be relocated to another's property without the owner’s written permission.

7.8. **Covered Species Handling.** The Designated Biologist shall limit the duration of handling and captivity. While in captivity, the Covered Species shall be kept in a cool, dark, moist, aerated environment, such as a clean and disinfected bucket or plastic container with a damp sponge. Containers used for holding or transporting shall not contain any standing water.

7.9. **Covered Species Injury.** If a Covered Species is injured as a result of Project-related activities, the Designated Biologist shall immediately take it to a USFWS and CDFW-approved wildlife rehabilitation, veterinary facility, or other qualified individual. Permittee shall identify the facility before starting Covered Activities. Permittee shall bear any costs associated with the care or treatment of such injured Covered Species. The Permittee shall notify CDFW of the injury to the Covered Species immediately by telephone and e-mail followed by a written incident report. Notification shall include the ITP number, date, time, location, and circumstances of the incident and the name of the facility or individual where the Covered Species was taken.

7.10. **Equipment Maintenance.** All equipment shall be maintained such that there will be no leaks of automotive fluids such as gasoline, oils, or solvents.

8. **Habitat Management Land Acquisition:**

CDFW has determined that permanent protection and perpetual management of compensatory habitat is necessary and required pursuant to CESA to fully mitigate Project-related impacts of the taking on the Covered Species that will result with implementation of the Covered Activities. This determination is based on factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW’s estimate of the acreage required to provide for adequate compensation.

To meet this requirement, the Permittee shall purchase 4.85 acres of Covered Species credits from a CDFW-approved mitigation or conservation bank (Condition of Approval 8.1).
8.1. Covered Species Credits. Permittee shall purchase 4.85 acres of Covered Species credits from a CDFW-approved mitigation or conservation bank prior to initiating Covered Activities or no later than 18 months from the issuance of this ITP if Security is provided pursuant to Condition of Approval 9 below.

8.2. Cost Estimates. CDFW has estimated the purchase of credits at a conservation or mitigation bank identified in Condition of Approval 8.1, estimated at $150,000 per credit, at $727,500.

8.3. Bill of Sale. Permittee shall submit to CDFW prior to Project activities if no Security is provided, a copy of the Bill of Sale(s) or within 18 months from issuance of this ITP if Security is provided.

9. Performance Security
The Permittee may proceed with Covered Activities only after the Permittee has ensured funding (Security) to complete any activity required by Condition of Approval 6 that has not been completed before Covered Activities begin. Permittee shall provide Security as follows:

9.1. Security Amount. The Security shall be in the amount of $727,500. This amount is based on the cost estimates identified in Condition of Approval 8.2 above.

9.2. Security Form. The Security shall be in the form of an irrevocable letter of credit (see Attachment 2) or another form of Security approved in advance in writing by CDFW’s Office of the General Counsel.

9.3. Security Timeline. The Security shall be provided to CDFW before Covered Activities begin or within 30 days after the effective date of this ITP, whichever occurs first.

9.4. Security Holder. The Security shall be held by CDFW or in a manner approved in advance in writing by CDFW.

9.5. Security Transmittal. If CDFW holds the Security, Permittee shall transmit it to CDFW with a completed Mitigation Payment Transmittal Form (see Attachment 3) or by way of an approved instrument such as escrow, irrevocable letter of credit, or other.

9.6. Security Drawing. The Security shall allow CDFW to draw on the principal sum if CDFW, in its sole discretion, determines that the Permittee has failed to comply with the Conditions of Approval of this ITP.

9.7. Security Release. The Security (or any portion of the Security then remaining) shall be released to the Permittee after CDFW has conducted an on-site inspection and received confirmation that all secured requirements have been satisfied, as evidenced by:
• Copies of bills of sale;
• Timely submission of all required reports.

Even if Security is provided, the Permittee must complete the purchase of Covered Species credits no later than 18 months from the effective date of this ITP. CDFW may require the Permittee to provide additional Covered Species credits and/or additional funding to ensure the impacts of the taking are minimized and fully mitigated, as required by law, if the Permittee does not complete these requirements within the specified timeframe.

Amendment:
This ITP may be amended as provided by California Code of Regulations, Title 14, section 783.6, subdivision (c), and other applicable law. This ITP may be amended without the concurrence of the Permittee as required by law, including if CDFW determines that continued implementation of the Project as authorized under this ITP would jeopardize the continued existence of the Covered Species or where Project changes or changed biological conditions necessitate an ITP amendment to ensure that all Project-related impacts of the taking to the Covered Species are minimized and fully mitigated.

Stop-Work Order:
CDFW may issue Permittee a written stop-work order requiring Permittee to suspend any Covered Activity for an initial period of up to 25 days to prevent or remedy a violation of this ITP, including but not limited to the failure to comply with reporting or monitoring obligations, or to prevent the unauthorized take of any CESA endangered, threatened, or candidate species. Permittee shall stop work immediately as directed by CDFW upon receipt of any such stop-work order. Upon written notice to Permittee, CDFW may extend any stop-work order issued to Permittee for a period not to exceed 25 additional days. Suspension and revocation of this ITP shall be governed by California Code of Regulations, Title 14, section 783.7, and any other applicable law. Neither the Designated Biologist nor CDFW shall be liable for any costs incurred in complying with stop-work orders.

Compliance with Other Laws:
This ITP sets forth CDFW’s requirements for the Permittee to implement the Project pursuant to CESA. This ITP does not necessarily create an entitlement to proceed with the Project. Permittee is responsible for complying with all other applicable federal, state, and local law.

Notices:
The Permittee shall deliver a fully executed duplicate original ITP by registered first class mail or overnight delivery to the following address:

Habitat Conservation Planning Branch
California Department of Fish and Wildlife
Attention: CESA Permitting Program
1416 Ninth Street, Suite 1266
Sacramento, CA 95814

Written notices, reports and other communications relating to this ITP shall be delivered to CDFW by registered first class mail at the following address, or at addresses CDFW may subsequently provide the Permittee. Notices, reports, and other communications shall reference the Project name,
Permittee, and ITP Number (2081-2015-025-03) in a cover letter and on any other associated documents.

Original cover with attachment(s) to:

Scott Wilson, Regional Manager
California Department of Fish and Wildlife
Bay Delta Region
7329 Silverado Trail
Napa, CA 94558
Telephone (707) 944-5500
Fax (707) 944-5563

and a copy to:

Habitat Conservation Planning Branch
California Department of Fish and Wildlife
Attention: CESA Permitting Program
1416 Ninth Street, Suite 1266
Sacramento, CA 95814

Unless Permittee is notified otherwise, CDFW’s Regional Representative for purposes of addressing issues that arise during implementation of this ITP is:

Stephanie Buss
7329 Silverado Trail
Napa, CA 94558
Telephone (707) 944-5502
Fax (707) 944-5563

Compliance with CEQA:
CDFW’s issuance of this ITP is subject to CEQA. CDFW is a responsible agency pursuant to CEQA with respect to this ITP because of prior environmental review of the Project by the lead agency, Sonoma County Permit and Resource Management Department. (See generally Pub. Resources Code, §§ 21067, 21069). The lead agency’s prior environmental review of the Project is set forth in the Mitigated Negative Declaration, (File No.: PLP09-0101) dated February 11, 2011 that the Sonoma County Permit and Resource Management Department adopted for Crossroads on April 5, 2011. At the time the lead agency adopted the Mitigated Negative Declaration and approved the Project it also adopted various mitigation measures for the Covered Species as conditions of Project approval.

This ITP, along with CDFW’s related CEQA findings, which are available as a separate document, provide evidence of CDFW’s consideration of the lead agency’s Mitigated Negative Declaration/EIR for the Project and the environmental effects related to issuance of this ITP (CEQA Guidelines, § 15096, subd. (f)). CDFW finds that issuance of this ITP will not result in any previously undisclosed potentially significant effects on the environment or a substantial increase in the severity of any potentially significant environmental effects previously disclosed by the lead agency. Furthermore, to
the extent the potential for such effects exists, CDFW finds adherence to and implementation of the Conditions of Project Approval adopted by the lead agency, and that adherence to and implementation of the Conditions of Approval imposed by CDFW through the issuance of this ITP, will avoid or reduce to below a level of significance any such potential effects. CDFW consequently finds that issuance of this ITP will not result in any significant, adverse impacts on the environment.

**Findings Pursuant to CESA:**
These findings are intended to document CDFW’s compliance with the specific findings requirements set forth in CESA and related regulations. [Fish and Game Code § 2081, subs. (b)-(c); Cal. Code Regs., tit. 14, §§ 783.4, subds, (a)-(b), 783.5, subd. (c)(2)].

CDFW finds based on substantial evidence in the ITP application, the Mitigated Negative Declaration, and the administrative record of proceedings, that issuance of this ITP complies and is consistent with the criteria governing the issuance of ITPs pursuant to CESA:

1. Take of Covered Species as defined in this ITP will be incidental to the otherwise lawful activities covered under this ITP;

2. Impacts of the taking on Covered Species will be minimized and fully mitigated through the implementation of measures required by this ITP and as described in the MMRP. Measures include: (1) the purchase of Covered Species credits; (2) establishment of avoidance zones; (3) worker education; and (4) Quarterly Compliance Reports. CDFW evaluated factors including an assessment of the importance of the habitat in the Project Area, the extent to which the Covered Activities will impact the habitat, and CDFW’s estimate of the acreage required to provide for adequate compensation. Based on this evaluation, CDFW determined that the protection and management in perpetuity of 4.85 acres of compensatory habitat that is contiguous with other protected Covered Species habitat and/or is of higher quality than the habitat being destroyed by the Project, along with the minimization, monitoring, reporting, and funding requirements of this ITP minimizes and fully mitigates the impacts of the taking caused by the Project;

3. The take avoidance and mitigation measures required pursuant to the conditions of this ITP and its attachments are roughly proportional in extent to the impacts of the taking authorized by this ITP;

4. The measures required by this ITP maintain Permittee’s objectives to the greatest extent possible;

5. All required measures are capable of successful implementation;

6. This ITP is consistent with any regulations adopted pursuant to Fish and Game Code sections 2112 and 2114;

7. Permittee has ensured adequate funding to implement the measures required by this ITP as well as for monitoring compliance with, and the effectiveness of, those measures for the Project; and
(8) Issuance of this ITP will not jeopardize the continued existence of the Covered Species based on the best scientific and other information reasonably available, and this finding includes consideration of the species' capability to survive and reproduce, and any adverse impacts of the taking on those abilities in light of (1) known population trends; (2) known threats to the species; and (3) reasonably foreseeable impacts on the species from other related projects and activities. Moreover, CDFW's finding is based, in part, on CDFW's express authority to amend the terms and conditions of this ITP without concurrence of the Permittee as necessary to avoid jeopardy and as required by law.

Attachments:

FIGURE 1  Map of Project
ATTACHMENT 1 Mitigation Monitoring and Reporting Program
ATTACHMENT 2 Letter of Credit Form
ATTACHMENT 3 Mitigation Payment Transmittal Form

ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

on January 21, 2014.

Scott Wilson, Regional Manager
BAY DELTA REGION

ACKNOWLEDGMENT

The undersigned: (1) warrants that he or she is acting as a duly authorized representative of the Permittee, (2) acknowledges receipt of this ITP, and (3) agrees on behalf of the Permittee to comply with all terms and conditions.

By: ___________________________________ Date: 2/19/16

Pascal Sisich
Deputy Executive Director

Printed Name: Deputy Executive Director Title:_____________________________________

Incidental Take Permit
No. 2081-2015-025-03
Burbank Housing Development Corporation
Crossroads Project
Attachment 1

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
MITIGATION MONITORING AND REPORTING PROGRAM (MMRP)
CALIFORNIA ENDANGERED SPECIES ACT

INCIDENTAL TAKE PERMIT NO. 2081-2015-025-03

PERMITTEE: Burbank Housing Development Corporation

PROJECT: Crossroads Project

PURPOSE OF THE MMRP
The purpose of the MMRP is to ensure that the impact minimization and mitigation measures required by the California Department of Fish and Wildlife (CDFW) for the above-referenced Project are properly implemented, and thereby to ensure compliance with section 2081(b) of the Fish and Game Code and section 21081.6 of the Public Resources Code. A table summarizing the mitigation measures required by CDFW is attached. This table is a tool for use in monitoring and reporting on implementation of mitigation measures, but the descriptions in the table do not supersede the mitigation measures set forth in the California Incidental Take Permit (ITP) and in attachments to the ITP, and the omission of a permit requirement from the attached table does not relieve the Permittee of the obligation to ensure the requirement is performed.

OBLIGATIONS OF PERMITTEE
Mitigation measures must be implemented within the time periods indicated in the table that appears below. Permittee has the primary responsibility for monitoring compliance with all mitigation measures and for reporting to CDFW on the progress in implementing those measures. These monitoring and reporting requirements are set forth in the ITP itself and are summarized at the front of the attached table.

VERIFICATION OF COMPLIANCE, EFFECTIVENESS
CDFW may, at its sole discretion, verify compliance with any mitigation measure or independently assess the effectiveness of any mitigation measure.

TABLE OF MITIGATION MEASURES
The following items are identified for each mitigation measure: Mitigation Measure, Source, Implementation Schedule, Responsible Party, and Status/Date/Initials. The Mitigation Measure column summarizes the mitigation requirements of the ITP. The Source column identifies the ITP condition that sets forth the mitigation measure. The Implementation Schedule column shows the date or phase when each mitigation measure will be implemented. The Responsible Party column identifies the person or agency that is primarily responsible for implementing the mitigation measure. The Status/Date/Initials column shall be completed by the Permittee during preparation of each Status Report and the Final Mitigation Report, and must identify the implementation status of each mitigation measure, the date that status was determined, and the initials of the person determining the status.
<table>
<thead>
<tr>
<th>Mitigation Measure</th>
<th>Source</th>
<th>Implementation Schedule</th>
<th>Responsible Party</th>
<th>Status / Date / Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Permittee shall clearly delineate habitat of the Covered Species within the Project Area with posted signs, posting stakes, flags, and/or rope or cord, and place fencing as necessary to minimize the disturbance of Covered Species' habitat.</td>
<td>ITP Condition # 5.10</td>
<td>Before commencing ground- or vegetation-disturbing activities/ Entire Project</td>
<td>Permittee</td>
<td></td>
</tr>
<tr>
<td>8 The Designated Representative shall notify CDFW 14 calendar days before starting Covered Activities and shall document compliance with all pre-Project Conditions of Approval before starting Covered Activities.</td>
<td>ITP Condition # 6.1</td>
<td>Before commencing ground- or vegetation-disturbing activities</td>
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<td></td>
</tr>
<tr>
<td>9 Prior to the start of Covered Activities, the Designated Biologist shall perform a pre-construction survey within the boundaries of the Project area.</td>
<td>ITP Condition # 7.1</td>
<td>Before commencing ground- or vegetation-disturbing activities</td>
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<td></td>
</tr>
<tr>
<td>10 Permittee shall purchase 4.85 acres of Covered Species credits from a CDFW-approved mitigation or conservation bank prior to initiating Covered Activities or no later than 18 months from the issuance of this ITP if Security is provided pursuant to Condition of Approval 9 below</td>
<td>ITP Condition # 8.1</td>
<td>Before commencing ground- or vegetation-disturbing activities (or within 18 months of issuance of the ITP if Security is provided)</td>
<td>Permittee</td>
<td></td>
</tr>
<tr>
<td>11 Bill of Sale. Permittee shall submit to CDFW prior to Project activities if no Security is provided, a copy of the Bill of Sale(s) or within 18 months from issuance of this ITP if Security is provided.</td>
<td>ITP Condition # 8.3</td>
<td>Before commencing ground- or vegetation-disturbing activities (or within 18 months of issuance of the ITP if Security is provided)</td>
<td>Permittee</td>
<td></td>
</tr>
<tr>
<td>Mitigation Measure</td>
<td>Source</td>
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<td>16 Project-related personnel shall not cross Covered Species' habitat outside of or en route to the Project Area. Permittee shall ensure that vehicle speeds do not exceed 15 miles per hour to avoid Covered Species. If Permittee determines construction of routes for travel are necessary outside of the Project Area, the Designated Representative shall contact CDFW for written approval before carrying out such an activity. CDFW may require an amendment to the ITP, among other reasons, if additional take of Covered Species will occur as a result of the Project modification.</td>
<td>ITP Condition # 5.11</td>
<td>Entire Project</td>
<td>Permittee</td>
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<tr>
<td>17 Permittee shall confine all Project-related parking, storage areas, laydown sites, equipment storage, and any other surface-disturbing activities to the Project Area using, to the extent possible, previously disturbed areas.</td>
<td>ITP Condition # 5.12</td>
<td>Entire Project</td>
<td>Permittee</td>
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<td>18 Permittee shall immediately stop and, pursuant to pertinent state and federal statutes and regulations, arrange for repair and clean up by qualified individuals of any fuel or hazardous waste leaks or spills at the time of occurrence, or as soon as it is safe to do so. Permittee shall exclude the storage and handling of hazardous materials from the Project Area and shall properly contain and dispose of any unused or leftover hazardous products off-site.</td>
<td>ITP Condition # 5.13</td>
<td>Entire Project</td>
<td>Permittee</td>
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<td>19 Permittee shall provide CDFW staff with reasonable access to the Project and shall otherwise fully cooperate with CDFW efforts to verify compliance with or effectiveness of mitigation measures set forth in this ITP.</td>
<td>ITP Condition # 5.14</td>
<td>Entire Project</td>
<td>Permittee</td>
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<td>20 The Designated Representative shall immediately notify CDFW in writing if it determines that the Permittee is not in compliance with any Condition of Approval of this ITP, including but not limited to any actual or anticipated failure to implement measures within the time periods indicated in this ITP and/or the MMRP. The Designated Representative shall report any non-compliance with this ITP to CDFW within 24 hours.</td>
<td>ITP Condition # 6.2</td>
<td>Entire Project</td>
<td>Permittee</td>
<td></td>
</tr>
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<td>21 The Designated Biologist shall be on-site daily when Covered Activities occur. The Designated Biologist shall conduct compliance inspections to (1) minimize incidental take of the Covered Species; (2) prevent unlawful take of species; (3) check for compliance with all measures of this ITP; (4) check all exclusion zones; and (5) ensure that signs, stakes, and fencing are intact, and that Covered Activities are only occurring in the Project Area. The Designated Representative or Designated Biologist shall prepare daily written observation and inspection records summarizing: oversight activities and compliance inspections, observations of Covered Species and their sign, survey results, and monitoring activities required by this ITP. The Designated Biologist shall conduct compliance inspections a minimum of once per week during periods of inactivity and after excavation and grading are completed.</td>
<td>ITP Condition # 6.3</td>
<td>Entire Project</td>
<td>Permittee</td>
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<td>22 The Designated Representative or Designated Biologist shall compile the observation and inspection records identified in Condition of Approval 6.3 into a Quarterly Compliance Report and submit it to CDFW along with a copy of the MMRP Update with notes showing the current implementation status of each mitigation measure. Quarterly Compliance Reports shall be submitted to the CDFW offices listed in the Notices section of this ITP and via e-mail to CDFW's Regional Representative. At the time of this ITP's approval, the CDFW Regional Representative is Stephanie Buss (<a href="mailto:stephanie.buss@wildlife.ca.gov">stephanie.buss@wildlife.ca.gov</a>). CDFW may at any time increase the timing and number of compliance inspections and reports required under this provision depending upon the results of previous compliance inspections. If CDFW determines the reporting schedule must be changed, CDFW will notify Permittee in writing of the new reporting schedule.</td>
<td>ITP Condition # 6.4</td>
<td>Entire Project</td>
<td>Permittee</td>
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<td>Mitigation Measure</td>
<td>Source</td>
<td>Implementation Schedule</td>
<td>Responsible Party</td>
<td>Status / Date / Initials</td>
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<td>30 Permitee shall install and maintain temporary barriers to prevent Covered Species from moving into the Project Area. The barrier may be removed during daily construction activities and shall be replaced every night. The barrier shall remain in place every evening until all Covered Activities have been completed. The Designated Biologist shall inspect the barrier daily and the Permitee shall maintain and repair as necessary to ensure that the barriers are functional.</td>
<td>ITP Condition # 7.6</td>
<td>Entire Project</td>
<td>CDFW</td>
<td></td>
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<tr>
<td>31 The Designated Biologist shall relocate the Covered Species found within the Project Area to appropriate habitat approved by the U.S. Fish and Wildlife Service (USFWS) and CDFW and monitor the Covered Species until it is determined that the Covered Species is not imperiled by predators or other dangers. The captured Covered Species shall not be relocated to another’s property without the owner’s written permission.</td>
<td>ITP Condition # 7.7</td>
<td>Entire Project</td>
<td>CDFW</td>
<td></td>
</tr>
<tr>
<td>32 The Designated Biologist shall limit the duration of handling and captivity. While in captivity, the Covered Species shall be kept in a cool, dark, moist, aerated environment, such as a clean and disinfected bucket or plastic container with a damp sponge. Containers used for holding or transporting shall not contain any standing water.</td>
<td>ITP Condition # 7.8</td>
<td>Entire Project</td>
<td>CDFW</td>
<td></td>
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<tr>
<td>33 If a Covered Species is injured as a result of Project-related activities, the Designated Biologist shall immediately take it to a USFWS and CDFW-approved wildlife rehabilitation, veterinary facility, or other qualified individual. Permitee shall identify the facility before starting Covered Activities. Permitee shall bear any costs associated with the care or treatment of such injured Covered Species. The Permitee shall notify CDFW of the injury to the Covered Species immediately by telephone and e-mail followed by a written incident report. Notification shall include the ITP number, date, time, location, and circumstances of the incident and the name of the facility or individual where the Covered Species was taken.</td>
<td>ITP Condition # 7.9</td>
<td>Entire Project</td>
<td>CDFW</td>
<td></td>
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<td>34 All equipment shall be maintained such that there will be no leaks of automotive fluids such as gasoline, oils, or solvents.</td>
<td>ITP Condition # 7.10</td>
<td>Entire Project</td>
<td>CDFW</td>
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**POST-CONSTRUCTION**

<table>
<thead>
<tr>
<th>Mitigation Measure</th>
<th>Source</th>
<th>Implementation Schedule</th>
<th>Responsible Party</th>
<th>Status / Date / Initials</th>
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<tbody>
<tr>
<td>35 Upon completion of Covered Activities, Permitee shall remove from the Project Area and properly dispose of all construction refuse, including, but not limited to, broken equipment parts, wrapping material, cords, cables, wire, rope, strapping, twine, buckets, metal or plastic containers, and boxes.</td>
<td>ITP Condition # 5.15</td>
<td>Post-construction</td>
<td>Permitee</td>
<td></td>
</tr>
<tr>
<td>36 No later than 45 days after completion of all mitigation measures, Permitee shall provide CDFW with a Final Mitigation Report. The Designated Biologist shall prepare the Final Mitigation Report which shall include, at a minimum: (1) a summary of all Quarterly Compliance Reports and all ASRs; (2) a copy of the table in the MMRP with notes showing when each of the mitigation measures was implemented; (3) all available information about Project-related incidental take of the Covered Species; (4) information about other Project impacts on the Covered Species; (5) beginning and ending dates of Covered Activities; (6) an assessment of the effectiveness of this ITP’s Conditions of Approval in minimizing and fully mitigating Project impacts of the taking on Covered Species; (7) recommendations on how mitigation measures might be changed to more effectively minimize take and mitigate the impacts of future projects on the Covered Species; and (8) any other pertinent information.</td>
<td>ITP Condition # 6.7</td>
<td>Post-construction and after completion of mitigation</td>
<td>Permitee</td>
<td></td>
</tr>
</tbody>
</table>
IRREVOCABLE STANDBY LETTER OF CREDIT
NO. [Number issued by financial institution]

Issue Date: [date]

Beneficiary:

California Department of Fish and Wildlife
1416 Ninth Street, 12th Floor
Sacramento, CA 95814
Attn: HCPB Mitigation Account Coordinator

Amount: U.S. $[dollar number] [(dollar amount)]

Expiry: [Date] at our counters

Dear Sirs:

1. At the request and on the instruction of our customer, [name of applicant] ("Applicant"), we, [Name of financial institution] ("Issuer"), hereby establish in favor of the beneficiary, the California Department of Fish and Wildlife ("CDFW"), this irrevocable standby letter of credit ("Credit") in the principal sum of U.S. $[dollar number] [(dollar amount)] ("Principal Sum").

2. We are informed this Credit is and has been established for the benefit of the CDFW pursuant to the terms of the incidental take permit for the [name of project] issued by the CDFW to the Applicant on [date] (No. [number]) ("Permit").

3. We are further informed that pursuant to the Permit, the Applicant has agreed to complete certain mitigation requirements, as set forth in Conditions [numbers] in the Permit ("Mitigation Requirements").

4. We are finally informed that this Credit is intended by the CDFW and the Applicant to serve as a security device for the performance by the Applicant of the Mitigation Requirements.

5. The CDFW shall be entitled to draw upon this Credit only by presentation of a duly executed Certificate for Drawing ("Certificate") in the same form as Attachment A, which is attached hereto, at our office located at [name and address of financial institution].

6. The Certificate shall be completed and signed by an "Authorized Representative" of the CDFW as defined in paragraph 12 below. Presentation by the CDFW of a completed Certificate may be made in person or by registered mail, return receipt requested, or by overnight courier.
17. This Credit shall, if not canceled, expire on [expiration date], or any extended expiration date.

18. We hereby agree with the CDFW that documents presented in compliance with the terms of this Credit will be duly honored upon presentation, as specified herein.

19. This Credit sets forth in full the terms of our undertaking. Such undertaking shall not in any way be modified, amended or amplified by reference to any document or instrument referred to herein or in which this Credit is referred to or to which this Credit relates and any such reference shall not be deemed to incorporate herein by reference any document or instrument.

[Name of financial institution]

By: ____________________________
Name: __________________________
Title: ____________________________
ATTACHMENT B

IRREVOCABLE LETTER OF CREDIT NO. [Number issued by financial institution]
CERTIFICATE FOR CANCELLATION

To:

[Name of financial institution and address]

Re: Incidental Take Permit No. [permit number]

The undersigned, a duly Authorized Representative of the California Department of Fish and Wildlife (“CDFW”), as defined in the paragraph 12 in the above-referenced Irrevocable Standby Letter of Credit (“Credit”), hereby certifies to the Issuer that:

1. [Insert one of the following statements]: “The Applicant has presented documentary evidence of full compliance with the Mitigation Requirements referenced in paragraph 3 of the Credit.” or “The natural expiration of this Credit has occurred.”

2. The CDFW therefore requests the cancellation of the Credit.

Therefore, the CDFW has executed and delivered this Certificate for Cancellation as of the _____ day of ____________, ______.

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE

BY: _______________________
[Insert one of the following: “DIRECTOR” or “GENERAL COUNSEL” or “REGIONAL MANAGER, [NAME OF REGIONAL OFFICE]”]
**Mitigation Payment Transmittal Form**

**Project Applicant Instructions:** Please fill out and attach this form to payment. For conservation banks, also attach the Bill(s) of Sale for credits sold. One form may be used for multiple transactions, BUT YOU MUST USE A SEPARATE FORM FOR EACH CHECK YOU TRANSMIT. Make sure to include Project Name, Project Tracking Number, and FASB Mitigation Tracking Number (if available) on the attached payment type.

1. **DATE:**

2. **TO:**
   - [CDFW Regional Manager]
   - [CDFW Regional Office Address]

3. **FROM:**
   - Name
   - Mailing Address
   - City, State, Zip
   - Telephone Number/FAX Number

4. **RE:**
   - [Project Name as appears on permit/Agreement]

   **AGREEMENT/ACCOUNT INFORMATION:**
   (Check the applicable type)
   - ☐ 2081 Permit
   - ☐ Conservation Bank
   - ☐ 1802 Agreement
   - ☐ 2835 NCCP
   - ☐ Other ______________________

   [Project Tracking Number]

   [FASB Mitigation Tracking Number (if available)]

   Index ______________________  PCA ______________________

5. **PAYMENT TYPE** (One check per form only): The following funds are being remitted in connection with the above referenced project:

   **Check information:**
   - Total $____________________  Check No. ______________________
   - Account No. ________________  Bank Routing No. ______________________

   a. Endowment: for Long-Term Management  Subtotal $____________________
   b. Habitat Enhancement  Subtotal $____________________
   c. Security:

   1. Cash Refundable Security Deposit  Subtotal $____________________
   2. Letter of Credit  Subtotal $____________________

      1. Financial Institution: ______________________
      2. Letter of Credit Number: ______________________
      3. Date of Expiration: ______________________

Rev. 2013.1.1
Mr. Steven B. Sachs
Director, Office of Community Planning and Development
U.S. Department of Housing and Urban Development
San Francisco Regional Office—Region IX
600 Harrison Street
San Francisco, California 94107-1387

Subject: Formal Consultation on the Proposed Burbank Avenue Housing Project at 1980 and 2010 Burbank Avenue, Santa Rosa, Sonoma County, California

Dear Mr. Sachs:

This is in response to your August 7, 2006, request for formal consultation with the U.S. Fish and Wildlife Service (Service) on the proposed Burbank Avenue Housing Project (proposed action) at 1980 and 2010 Burbank Avenue by the Burbank Housing Corporation (project proponent) in Santa Rosa, Sonoma County, California. Your request for formal consultation was received in our office on August 9, 2006. This document represents the Service’s biological opinion on the effects of the proposed action on the endangered Sonoma County Distinct Population Segment of the California tiger salamander (*Ambystoma californiense*) and three endangered plant species (three listed plants): Sebastopol meadowfoam (*Limnanthes vinculans*), Sonoma sunshine (*Blennosperma bakeri*), and Burke’s goldfields (*Lasthenia burkei*). This biological opinion does not include the endangered many-flowered Navarretia (*Navarretia leucocephala*) since this plant species is only known to occur in a few locations in the Santa Rosa Plain. This biological opinion is issued pursuant to section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.) (Act).

This biological opinion is based on information provided in the following:

1. The August 7, 2006, letter from the U.S. Department of Housing and Urban Development requesting formal consultation for the proposed action;
2. The June 27, 2006, letter from the City of Santa Rosa requesting consultation for the proposed action as a responsible entity identified by the U.S. Department of Housing and Urban Development under 24 CFR Part 58;

3. The August 21, 2006, *Biological Assessment, 1980 and Burbank Avenue, Santa Rosa, Sonoma County, California* (Biological Assessment) prepared by LSA Associates, Inc.;

4. Electronic mail, correspondence and/or telephone conversations between representatives of the Service, California Department of Fish and Game (CDFG), and the project proponent and their biological consultant;

5. The Santa Rosa Plain Conservation Strategy Final document dated December 1, 2005 (Conservation Strategy);

6. The 2006 joint Service and CDFG letter describing the interim mitigation guidelines for the Conservation Strategy;

7. References cited in this biological opinion; and

8. Other information available to the Service.

**CONSULTATION HISTORY**

June 29, 2006: The Service received the City of Santa Rosa’s June 27, 2006, letter requesting consultation for the proposed action.

August 9, 2006: The Service received the U.S. Department of Housing and Urban Development’s August 7, 2006, letter requesting initiation of formal consultation for the proposed action.

August 25, 2006: The Service received the Biological Assessment from LSA Associates, Inc.

October 26, 2006: The Service received additional information from LSA Associates, Inc. clarifying the habitat compensation being provided by the project proponent for the proposed action.

**BIOLOGICAL OPINION**

**Description of Proposed Action**

The proposed action consists of a single project site located at 1980 and 2010 Burbank Avenue
(Assessor’s Parcel Numbers 125-421-018 and 125-421-019, respectively) in Santa Rosa, California. The project site comprises 4.85 acres (1.96 hectares) and would be developed into 90 affordable single-family apartment units with related roadways and other infrastructure. Construction of the proposed action is scheduled to begin in 2007 and be completed by late 2008.

The lands on the project site support approximately 4.80 acres (1.94 hectares) of non-native annual grasslands, 0.04 acre (0.016 hectare) of seasonal wetlands, and a 0.01-acre (0.004 hectare) roadside ditch. Although the wetlands on the project site are not known to support California tiger salamander breeding activity, the project site provides about 4.85 acres (1.96 hectares) of suitable upland and wetland habitat for this species. About 0.65 acre (0.26 hectare) of the project site is between 500 (152.4 meters) and 2,200 feet (609.6 meters) of the known California tiger salamander breeding location near the intersection of Hearns Avenue and Old Stony Point Road. About 4.2 acres (1.70 hectares) of the project site are within 2,200 feet (609.6 meters) of this known breeding location. Although none of the three listed plants were observed in the seasonal wetlands on the project site during two years of protocol level plant surveys, the wetlands on the project site are considered suitable habitat for the three listed plants.

Proposed Conservation Measures

According to the Biological Assessment and other information available to the Service, the project proponent proposes to avoid, minimize, and compensate effects to the California tiger salamander and the three listed plants through the following measures:

1. To minimize the adverse effects resulting from the loss of habitat for the California tiger salamander and three listed plants, the proponent of the proposed action has protected a total of 5.7 acres (2.31 hectares) at a Service and CDFG-approved mitigation bank and preserve. This total includes 5.6 acres (2.27 hectares) of California tiger salamander upland habitat credits at the Hazel Mitigation Bank, 0.05 acre (0.02 hectare) of wetlands creation credits at the Hazel Mitigation Bank, and preservation of 0.05 acre (0.02 hectare) of plant habitat at the Davis Preserve. Bills of sale for the purchase/acquisition of these credits or acres at the bank and preserve, respectively, have been provided to the Service. The habitat compensation provided is consistent with the interim mitigation guidelines presented in the 2006 joint letter of CDFG and the Service and the “Santa Rosa Plain Conservation Strategy” final document.

2. A duly trained monitor would be present at all times when work is in progress at the project site to supervise the on-site compliance of these protection measures. A Service-approved biologist would be responsible for appropriate training of the monitor.

3. A training session would be given by the biologist to all construction workers before work is started on the project. After initial training, all new personnel would be given the training as well. The training session would include pictures of the California tiger salamander, information on their biology, measures required to protect this species,
relevant Federal and State regulations, penalties for harming or harassing California tiger salamanders, and steps to take if California tiger salamanders are found.

4. If a California tiger salamander is observed within the project site by a worker, the worker would immediately inform the monitor. The monitor would notify the biologist immediately. All work would halt and machinery turned off within 100 feet (30.48 meters) of the animal until a biologist can capture and remove the California tiger salamander from the work area. Service-approved biologists would be the only personnel allowed to handle California tiger salamanders. Any California tiger salamanders found in the work area would be relocated to pre-approved areas no more than one hour after they are captured.

5. The monitor and the biologist would have the authority to halt work activities at any time to prevent harming California tiger salamanders or when any of conservation measures have been violated. Work would only commence when authorized by the monitor or biologists.

6. Before the start of work each morning, the monitor would check for California tiger salamanders under any equipment such as vehicles and stored pipes.

7. Before the start of work each morning, the monitor would check all excavated steep-walled holes or trenches greater than one foot (0.3 meter) deep for California tiger salamanders or other wildlife. If found, California tiger salamanders or other the wildlife would be removed and the biologist would be notified if California tiger salamanders are found.

8. A record of all California tiger salamanders observed and the outcome of that observation will be kept by the biologist and submitted to the Service.

9. Access routes and the number and size of staging and work areas would be limited to the minimum necessary to achieve the project goals. Routes and boundaries of the road work would be clearly marked. Off-road driving would be limited to only what is necessary for the project.

10. All foods and food-related trash items, such as lunch bags, plastic sandwich bags, fast food containers, foods of any type, candy wrappers, chip packages, drink bottles and cans, etc., would be enclosed in sealed trash containers and removed completely from the site once every three days.

11. No pets would be allowed anywhere in the project site during construction.

12. A speed limit of 15 mph (24 kph) on dirt roads would be maintained. All equipment would be maintained such that there would not be any leaks of automotive fluids such as
gasoline, oils, or solvents.

13. Hazardous materials such as fuels, oils, solvents, etc., would be stored in sealable containers in a designated location at least 200 feet (60.96 meters) from aquatic habitats. All fueling and maintenance of vehicles and other equipment and staging areas would occur at least 200 feet (60.96 meters) from any aquatic habitat.

14. A separate Storm Water Pollution Prevention Plan would be developed and implemented for the project site to prevent project construction effects on habitat and waters draining outside the work areas. Erosion control would be accomplished using conventional techniques suitable for local conditions (soil type, slope, etc.). Applicable protection measures, such as barrier and/or silt fencing and regular on-site monitoring, would be used to protect against inadvertent effects to areas outside the project impact area during construction. The project proponent also would prepare a Storm Water Quality Management Plan to treat post-construction storm water runoff according to the standards promulgated by the Regional Water Quality Control Board and implemented through the City of Santa Rosa.

15. The clearing and grading of the project site would start between April 15 and October 15 of any given year.

**Action Area**

The action area is defined in 50 CFR § 402.02 as “all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action.” The action area for the proposed action includes the (1) project site described above; (2) remaining open space lands north (to Hughes Avenue), south (to Hearn Avenue), and west (to Old Stony Point Road) of the project site; (3) Hazel Mitigation Bank; and (4) Davis Preserve.

**STATUS OF THE SPECIES/ENVIRONMENTAL BASELINE**

**California Tiger Salamander**

The Sonoma County Distinct Population Segment of the California tiger salamander was emergency listed as endangered on July 22, 2002 (67 FR 47726). The Sonoma County Distinct Population Segment of the California tiger salamander was listed as endangered on March 19, 2003, (68 FR 13497). The California tiger salamander was listed as threatened throughout its range in California on August 4, 2004 (69 FR 47212). This latter listing changed the status of the Santa Barbara and Sonoma county populations from endangered to threatened. On August 10, 2004, the Service proposed 47 critical habitat units in 20 counties; no critical habitat was proposed for Sonoma County (69 FR 48569). On October 13, 2004, a complaint was filed in the U.S. District Court for the Northern District of California (Center for Biological Diversity and Environmental Defense Council v. U.S. Fish and Wildlife Service et al.). On February 3, 2005,
the District Court required the Service to submit for publication in the Federal Register, a final determination on the proposed critical habitat designation on or before December 1, 2005. On August 2, 2005, the Service noticed in the Federal Register a proposed critical habitat designation (70 FR 44301). On August 19, 2005, a court order was filed on the above complaint, which upheld the section 4(d) rule exempting grazing from Section 9 prohibitions, but vacated the downlisting of the Santa Barbara and Sonoma populations and reinstated their endangered distinct population segment status. On December 14, 2005, we made a final determination to designate and exclude approximately 17,418 acres (7,049 hectares) of critical habitat for the Sonoma population (70 FR 74137). All of the critical habitat was excluded based on interim conservation strategies and measures being implemented by those local governing agencies with land use authority over the area and also as a result of economic exclusions authorized under section 4(b)(2) of the Act. Therefore, no critical habitat was designated for the Sonoma County Distinct Population Segment of the California tiger salamander in Sonoma County, California.

Historically, the California tiger salamander inhabited low elevation grassland and oak savanna plant communities of the Central Valley, and adjacent foothills, and the inner Coast Ranges in California (Jennings and Hayes 1994; Storer 1925; Shaffer et al. 1993). The species has been recorded from near sea level to approximately 3,900 feet (1188.7 meters) in the Coast Ranges and to approximately 1,600 feet (487.7 meters) in the Sierra Nevada foothills (Shaffer et al. 2004). Along the Coast Ranges, the species occurred from the Santa Rosa area of Sonoma County, south to the vicinity of Buellton in Santa Barbara County. The historic distribution in the Central Valley and surrounding foothills included northern Yolo County southward to northwestern Kern County and northern Tulare County.

The Sonoma County Distinct Population Segment of the California tiger salamander is discrete in relation to the remainder of the species. The population is geographically isolated and separate from other California tiger salamanders. The Sonoma County population is widely separated geographically from the closest populations, which are located in Contra Costa, Yolo, and Solano counties. These populations are separated from the Sonoma County population by the Coast Range, Napa River, and the Carquinez Strait, at a minimum distance of approximately 45 miles (72 kilometers). There are no known records of the California tiger salamander in the intervening areas (D. Warenycia, CDFG, personal communication with the Service, 2002). We have no evidence of natural interchange of individuals between the Sonoma County population and other California tiger salamander populations.

The Sonoma County Distinct Population Segment of the California tiger salamander inhabits low-elevation (below 300 feet [91 meters]) vernal pools and seasonal ponds, associated grassland, and oak savannah plant communities. The historic range of the Sonoma County population also may have included the Petaluma River watershed, as there is one historic record of a specimen from the vicinity of Petaluma from the mid-1800s (Borland 1856, as cited in Storer 1925).

The California tiger salamander is a large, stocky, terrestrial salamander with a broad, rounded
snout. Adults may reach a total length of 8.2 inches (20.8 centimeters) (Petranka 1998). California tiger salamanders exhibit sexual dimorphism with males tending to be larger than females. California tiger salamander coloration generally consists of random white or yellowish markings against a black body. The markings on adult California tiger salamanders tend to be more concentrated on the lateral sides of the body, whereas other tiger salamander species tend to have brighter yellow spotting that is heaviest on the dorsal surface.

The California tiger salamander has an obligate biphasic life cycle (Shaffer et al. 2004). Although the larvae develop in the vernal pools and ponds in which they were born, California tiger salamanders are otherwise terrestrial and spend most of their post-metamorphic lives in widely dispersed underground retreats (Shaffer et al. 2004; Trenham et al. 2001). Because they spend most of their lives underground, California tiger salamanders are rarely encountered, even in areas where they are abundant. Subadult and adult California tiger salamanders typically spend the dry summer and fall months in the burrows of small mammals, such as California ground squirrels (*Spermophilus beecheyi*) and Botta’s pocket gopher (*Thomomys bottae*) (Storer 1925; Loredo and Van Vuren 1996; Petranka 1998; Trenham 1998a). Although ground squirrels have been known to eat California tiger salamanders, the relationship with their burrowing hosts is primarily commensal (Loredo et al. 1996; Semonsen 1998).

California tiger salamanders may also use landscape features such as leaf litter or desiccation cracks in the soil for upland refugia. Burrows often harbor camel crickets and other invertebrates that provide likely prey for California tiger salamanders. Underground refugia also provide protection from the sun and wind associated with the dry California climate that can cause excessive drying of amphibian skin. Although California tiger salamanders are members of a family of “burrowing” salamanders, they are not known to create their own burrows. This may be due to the hardness of soils in the California ecosystems in which they are found. California tiger salamanders typically use the burrows of ground squirrels and gophers (Loredo et al. 1996; Trenham 1998a). However, Dave Cook (Sonoma County Water Agency, personal communication with the Service, 2001) found that pocket gopher burrows are most often used by California tiger salamanders in Sonoma County. California tiger salamanders depend on persistent small mammal activity to create, maintain, and sustain sufficient underground refugia. Burrows are short lived without continued small mammal activity and typically collapse within approximately 18 months (Loredo et al. 1996).

Upland burrows inhabited by California tiger salamanders have often been referred to as “estivation” sites. However, “estivation” implies a state of inactivity, while most evidence suggests that California tiger salamanders remain active in their underground dwellings. A recent study has found that California tiger salamanders move, feed, and remain active in their burrows (Van Hattem 2004). Because California tiger salamanders arrive at breeding ponds in good condition and are heavier when entering the pond than when leaving, researchers have long inferred that California tiger salamanders are feeding while underground. Recent direct observations have confirmed this (Trenham 2001; van Hattem 2004). Thus, “upland habitat” is a more accurate description of the terrestrial areas used by California tiger salamanders.
Once fall or winter rains begin, California tiger salamanders emerge from the upland sites on rainy nights to feed and to migrate to the breeding ponds (Stebbins 1985, 1989; Shaffer et al. 1993). Adult California tiger salamanders mate in the breeding ponds, after which the females lay their eggs in the water (Twitty 1941; Shaffer et al. 1993; Petranka 1998). Historically, the California tiger salamander utilized vernal pools, but the animals also currently breed in livestock stockponds. Females attach their eggs singly, or in rare circumstances, in groups of two to four, to twigs, grass stems, vegetation, or debris (Storer 1925; Twitty 1941). In ponds with no or limited vegetation, they may be attached to objects, such as rocks and boards on the bottom (Jennings and Hayes 1994). After breeding, adults leave the pool and return to the small mammal burrows (Loredo et al. 1996; Trenham 1998a), although they may continue to come out nightly for approximately the next two weeks to feed (Shaffer et al. 1993). In drought years, the seasonal pools may not form and the adults can not breed (Barry and Shaffer 1994).

California tiger salamander larvae typically hatch within 10 to 24 days after eggs are laid (Storer 1925). The peak emergence of these metamorphs is typically between mid-June to mid-July (Loredo and Van Vuren 1996; Trenham et al. 2000) but in some areas as early as late February or early March. The larvae are totally aquatic and range in length from approximately 0.45 to 0.56 inches (1.14 to 1.42 centimeters) (Petranka 1998). They have yellowish gray bodies, broad fat heads, large feathery external gills, and broad dorsal fins extending well up their back. The larvae feed on zooplankton, small crustaceans, and aquatic insects for about six weeks after hatching, after which they switch to larger prey (J. Anderson 1968). Larger larvae have been known to consume the tadpoles of Pacific treefrogs (Pseudacris regilla), Western spadefoot toads (Spea hammondii), and California red-legged frogs (Rana aurora draytonii) (J. Anderson 1968; P. Anderson 1968). California tiger salamander larvae are among the top aquatic predators in seasonal pool ecosystems. When not feeding, they often rest on the bottom in shallow water but are also found throughout the water column in deeper water. Young California tiger salamanders are wary and typically escape into vegetation at the bottom of the pool when approached by potential predators (Storer 1925).

The larval stage of the California tiger salamander usually last three to six months, as most seasonal ponds and pools dry up during the summer (Petranka 1998). Amphibian larvae must grow to a critical minimum body size before they can metamorphose (change into a different physical form) to the terrestrial stage (Wilbur and Collins 1973). Individuals collected near Stockton in the Central Valley during April varied from 1.88 to 2.32 inches (4.78 to 5.89 centimeters) in length (Storer 1925). Feaver (1971) found that larvae metamorphosed and left the breeding pools 60 to 94 days after the eggs had been laid, with larvae developing faster in smaller, more rapidly drying pools. The longer the ponding duration, the larger the larvae and metamorphosed juveniles are able to grow, and the more likely they are to survive and reproduce (Pechmann et al. 1989; Semlitsch et al. 1988; Morey 1998; Trenham 1998b). The larvae will perish if a site dries before metamorphosis is complete (P. Anderson 1968; Feaver 1971). Pechmann et al. (1989) found a strong positive correlation with ponding duration and total number of metamorphosing juveniles in five salamander species. In Madera County, Feaver (1971) found that only 11 of 30 pools sampled supported larval California tiger salamanders, and
5 of these dried before metamorphosis could occur. Therefore, out of the original 30 pools, only six (20 percent) provided suitable conditions for successful reproduction that year. Size at metamorphosis is positively correlated with stored body fat and survival of juvenile amphibians, and negatively correlated with age at first reproduction (Semlitsch et al. 1988; Scott 1994; Morey 1998). In the late spring or early summer, before the ponds dry completely, metamorphosed juveniles leave them and enter upland habitat. This emigration occurs in both wet and dry conditions (Loredo and Van Vuren 1996; Loredo et al. 1996). Unlike during their winter migration, the wet conditions that California tiger salamanders prefer do not generally occur during the months when their breeding ponds begin to dry. As a result, juveniles may be forced to leave their ponds on rainless nights. Under these conditions, they may move only short distances to find temporary upland sites for the dry summer months, waiting until the next winter’s rains to move further into suitable upland refugia. Once juvenile tiger salamanders leave their birth ponds for upland refugia, they typically do not return to ponds to breed for an average of 4 to 5 years. However, they remain active in the uplands, coming to the surface during rainfall events to disperse or forage (Trenham and Shaffer 2005).

Lifetime reproductive success for tiger salamander species is low. Results from one study suggest that the average female California tiger salamander bred 1.4 times and produced 8.5 young per reproductive effort that survived to metamorphosis (Trenham et al. 2000). This resulted in the output of roughly 11 metamorphic offspring over a breeding female’s lifetime. The primary reason for low reproductive success may be that this relatively short-lived species requires two or more years to become sexually mature (Shaffer et al. 1993). Some individuals may not breed until they are four to six years old. While California tiger salamanders may survive for more than ten years, many breed only once, and in one study, less than 5 percent of marked juveniles survived to become breeding adults (Trenham 1998b). With such low recruitment, isolated populations are susceptible to unusual, randomly occurring natural events as well human-caused factors that reduce breeding success and individual survival. Factors that repeatedly lower breeding success in isolated pools can quickly extirpate a population.

Dispersal and migration movements made by California tiger salamanders can be grouped into two main categories: (1) breeding migration; and (2) inter-pond dispersal. Breeding migration is the movement of salamanders to and from a pond from the surrounding upland habitat. After metamorphosis, juveniles move away from breeding ponds into the surrounding uplands, where they live continuously for several years. At a study in Monterey County, it was found that upon reaching sexual maturity, most individuals returned to their natal/birth pond to breed, while 20 percent dispersed to other ponds (Trenham et al. 2001). After breeding, adult California tiger salamanders return to upland habitats, where they may live for one or more years before attempting to breed again (Trenham et al. 2000).

California tiger salamanders are known to travel large distances between breeding ponds and their upland refugia. Generally it is difficult to establish the maximum distances traveled by any species, but California tiger salamanders in Santa Barbara County have been recorded dispersing up to 1.3 miles (2.09 kilometers) from their breeding ponds (Sweet 1998, in litt.). California
tiger salamanders are also known to travel between breeding ponds. One study found that 20 to 25 percent of the individuals captured at one pond were recaptured later at other ponds approximately 1,900 and 2,200 feet (579 to 671 meters) away (Trenham et al. 2001). In addition to traveling long distances during juvenile dispersal and adult migration, California tiger salamanders may reside in burrows far from ponds.

Although the observations above show that California tiger salamanders can travel far, typically they stay closer to breeding ponds. Evidence suggests that juvenile California tiger salamanders disperse further into upland habitats than adult California tiger salamanders. A trapping study conducted in Solano County during winter of 2002/2003 found that juveniles used upland habitats further from breeding ponds than adults (Trenham and Shaffer 2005). More juvenile California tiger salamanders were captured at distances of 328, 656, and 1,312 feet (99.97, 199.95, and 399.90 meters) from a breeding pond than at 164 feet (49.99 meters). Large numbers, approximately 20 percent of total captures, were found 1,312 feet (399.90 meters) from a breeding pond. Fitting a distribution curve to the data revealed that 95 percent of juvenile California tiger salamanders could be found within 2,099 feet (639.78 meters) of the pond, with the remaining 5 percent being found at even greater distances. Results from the 2003-04 trapping efforts detected juvenile tiger salamanders at even further distances, with a large proportion of the total California tiger salamanders caught at 2,297 feet (700.13 meters) from the breeding pond (Trenham et al. 2005). During post-breeding emigration, radio-equipped adult California tiger salamanders were tracked to burrows 62 to 813 feet (18.90 to 247.80 meters) from their breeding ponds (Trenham 2001). These reduced movements may be due to adult California tiger salamanders having depleted physical reserves post-breeding, or also due to the drier weather conditions that can occur during the period when adults leave the ponds.

In addition, rather than staying in a single burrow, most individuals used several successive burrows at increasing distances from the pond. Although the studies discussed above provide an approximation of the distances that tiger salamanders regularly move from their breeding ponds, upland habitat features will drive the details of movements in a particular landscape. Trenham (2001) found that radio-tracked adults favored grasslands with scattered large oaks, over more densely wooded areas. Based on radio-tracked adults, there is no indication that certain habitat types are favored as corridors for terrestrial movements (Trenham 2001). In addition, at two ponds completely encircled by drift fences and pitfall traps, captures of arriving adults and dispersing new metamorphs were distributed roughly evenly around the ponds. Thus, it appears that dispersal into the terrestrial habitat occurs randomly with respect to direction and habitat types.

Several species have either been documented to prey or likely prey upon California tiger salamanders including coyotes (Canis latrans), raccoons (Procyon lotor), opossums (Didelphis virginiana), egrets (Egretta species), great blue herons (Ardea herodias), crows (Corvus brachyrhynchos), ravens (Corvus corax), bullfrogs (Rana catesbeiana), mosquito fish (Gambusia affinis), and crayfish (Procambarus species).
The California tiger salamanders are imperiled throughout its range by a variety of human activities (69 FR 47212). Current factors associated with declining populations of the California tiger salamander include continued degradation and loss of habitat due to agriculture and urbanization, hybridization with non-native eastern tiger salamanders (Ambystoma tigrinum) (Fitzpatrick and Shaffer 2004; Riley et al. 2003), and introduced predators. Fragmentation of existing habitat and the continued colonization of existing habitat by non-native tiger salamanders (Ambystoma tigrinum and other species) may represent the most significant current threats to California tiger salamanders, although populations are likely threatened by more than one factor. Isolation and fragmentation of habitats within many watersheds have precluded dispersal between sub-populations and jeopardized the viability of metapopulations (broadly defined as multiple subpopulations that occasionally exchange individuals through dispersal, and are capable of colonizing or “rescuing” extinct habitat patches). Other threats are predation and competition from introduced exotic species; possible commercial overutilization; disease; various chemical contaminants; road-crossing mortality; and certain unrestrictive mosquito and rodent control operations.

Burke’s Goldfields

Burke’s goldfields was federally listed as endangered on December 2, 1991 (56 FR 61173). No critical habitat has been designated for this species. Burke’s goldfields is an annual herb in the aster family (Asteraceae). Plants are typically less than 11.8 inches (30 centimeters) in height (Hickman 1993) and usually branched (California Native Plant Society (CNPS) 1977). Leaves are opposite, less than two inches (5 centimeters) in length, and pinnately lobed. Yellow, daisy-like inflorescences with separate involucre bracts (leaf-like structures beneath the flower head) appear from approximately April through June (Skinner and Pavlik 1994). Fruits are achenes (dry, one-seeded fruits) less than 0.06 inch (1.5 millimeters) in length. The fruits of Burke’s goldfields can be distinguished from those of other goldfields by the presence of one long awn (bristle and numerous short scales) (Hickman 1993). Individual Burke’s goldfields plants may exhibit some geographic variation in morphology (McCarten 1985 as cited in CH2M Hill 1995, Patterson et al. 1994). Patterson et al. (1994) report robust specimens from the southern Santa Rosa Plain near the Laguna de Santa Rosa and variation in the number of awns from a Lake County population. Burke’s goldfields can be distinguished from smooth goldfields (Lasthenia glaberrima) because smooth goldfields have partly fused involucre bracts and a pappus (ring of scale-like or hair-like projections at the crown of an achene) of numerous narrowed scales. The linear leaves without lobes distinguish common goldfields (Lasthenia californica) from Burke’s goldfields (Hickman 1993).

Burke’s goldfields is endemic to the central California Coastal Range region and has been reported historically from Mendocino, Lake, and Sonoma counties (CNPS 1977, Patterson et al. 1994). The type locality of Burke’s goldfields is the only known occurrence from Mendocino County and is possibly extirpated. Two California Natural Diversity Database (CNDDDB) occurrences are recorded from Lake County, at Manning Flat and at a winery on Highway 29. Both Lake County occurrences are presumed extant. The remaining occurrences are from
Sonoma County (CNDDB 1998). Within Sonoma County, one occurrence is known from north of Healdsburg (Patterson et al. 1994). On the Santa Rosa Plain, Burke's goldfields is distributed primarily in the northwestern and central areas with two additional occurrences south of Highway 12 near the Laguna de Santa Rosa (CH2M Hill 1995). The core of the current range of Burke's goldfields is in the Santa Rosa Plain.

Burke's goldfields grow in vernal pools and swales below 500 meters (m) (Hickman 1993). At the Manning Flat occurrence in Lake County, Burke's goldfields is found in a series of claypan vernal pools on volcanic ash soils (56 FR 61173, CNDDB 1998). At this location, the species is associated with common goldfields and few-flowered navarretia (Navarretia leucocephala pauciflora) (CNDDB 1998). In Sonoma County, the vernal pools containing Burke's goldfields are on nearly level to slightly sloping loams, clay loams, and clays. A clay layer or hardpan approximately two to three feet (0.6 to 0.9 meters) below the surface restricts downward movement of water (56 FR 61173). Huichica loam is the predominant soil series on which Burke's goldfields is found on the northern part of the Santa Rosa Plain (Patterson et al. 1994, CNDDB 1998). Huichica loam is a fine textured clay loam over buried dense clay and cemented layers (Patterson et al. 1994). More southerly Burke's goldfields sites likely occur on Wright loam or Clear Lake clay (Patterson et al. 1994, CNDDB 1998). Wright loam is a fine silty loam over buried dense clay and marine sediments. Clear Lake clay is hard dense clay from the surface to many feet thick (Patterson et al. 1994). Burke's goldfields sometimes occurs along with Sonoma sunshine and Sebastopol meadowfoam (Limonium vinculans). These three federally listed species are all associated with other plants that commonly grow in vernal pools on the Santa Rosa Plain, including Douglas' pogogyne (Pogogyne douglasii spp. parviflora), Lobb's aquatic buttercup (Ranunculus lobbii), smooth goldfields, California semaphore grass (Pleurospogon californicus), maroonspot downingia (Downingia concolor), and button-celery (Eryngium sp.) (CNDDB 1998).

The flowers of Burke's goldfields are self-incompatible (Ornduff 1966, Crawford and Ornduff 1989) and insect-pollinated. Seed banks are of particular importance to annual plant species which are subject to uncertain or variable environmental conditions (Cohen 1966, 1967; Parker et al. 1989; Templeton and Levin 1979). Burke's goldfields fit this criterion; it is an annual species living in California's highly variable Mediterranean climate.

No information exists with respect to the seed life of Burke's goldfields. Circumstantial evidence suggests that Burke's goldfields successfully germinated from seed in soil collected from a previously developed portion of the Westwind Business Park (Building F) when the soil was translocated and deposited in created seasonal wetlands (C. Wilcox, CDFG, 2000 in litt.). As annual species, it is expected that Burke's goldfields and Sonoma sunshins will respond to environmental stochastic events, such as changes in vegetative composition, climate, and disturbance, by partial germination of its seed bank. Baskin and Baskin (1998) indicate that species (annuals) adapted to "risky environments" produce persistent seed banks to offset years of low reproductive success and to ensure the species can persist at a site without immigration. These characteristics can be attributed to Burke's goldfields. Considering the adaptations of
these plants to a variable Mediterranean climate it is likely the seed of Burke's goldfields can persist as dormant embryos for an undetermined number of years. Therefore, it is likely that populations of these species may persist undetected for a period of years until conditions are favorable to allow germination. Although formal studies of seed viability have not been conducted for these species, it is reasonable to expect their seed banks may persist for extended periods without germination. Furthermore, it is not unlikely that the individual fruits of Burke's goldfields may be predisposed to variable germination requirements as a strategy for survival.

For species that develop long-lived seed banks, a census of plants growing above ground may not accurately reflect the total number of plants at the site (Rice 1989, Given 1994). Population sizes of California's vernal pool/swale annual plant species, including Burke's goldfields, may fluctuate substantially between very high numbers in some years to very small numbers, or even absence in other years because of varying environmental conditions. Therefore, total extirpation cannot be assumed when above-ground plants of these species are not observed at a site. Furthermore, declines in population size over a few years may not necessarily indicate that habitat is unsuitable (Given 1994), merely that environmental conditions within a vernal pool or swale have not favored seed germination.

Burke's goldfields is threatened with habitat loss, fragmentation, and degradation throughout all or part of its range by factors including urbanization, agricultural land use changes, alterations in hydrology, and erosion (CNPS 1977, 56 FR 61173, Patterson et al. 1994, CH2M Hill 1995, CNDDB 1998). The only known Mendocino County occurrence is presumably extirpated (CH2M Hill 1995). The Manning Flat occurrence, located on private land in Lake County, is the largest known occurrence of the species and is threatened by extensive gully erosion that is destroying the habitat (CH2M Hill 1995, CNDDB 1998). The second Lake County occurrence is on property owned by a winery. Recent reports suggest that some damage to this population has resulted from vineyard operations (R. Chan, University of California, Berkeley, 1998 in litt.). However, in the past the winery owners appeared willing to coordinate with the Service and the U.S. Army Corps of Engineers (Corps) to avoid and/or minimize further damage to the site (N. Haley, Corps, 1998 pers. comm.). On the Santa Rosa Plain, many Burke's goldfields locations have been extirpated due to urbanization and conversion of land to row crops. Formerly well-represented in the vicinity of Windsor, Burke's goldfields has now been nearly extirpated from the area (Patterson et al. 1994, CH2M Hill 1995).

Of the 48 known records of Burke's goldfields, 26 are presumed to remain extant, with a majority found on the Santa Rosa Plain. Four populations occur outside of the Santa Rosa Plain, of which only two populations, one in northern Healdsburg and one at the Ployes winery, are extant.

**Sonoma Sunshine**

Sonoma sunshine was federally listed as endangered on December 2, 1991 (56 FR 61173). No critical habitat has been designated for this species. Sonoma sunshine is an annual plant in the
aster family. Plants are less than 11.8 inches (30 centimeters) tall with alternate, linear leaves (CNPS 1977, Hickman 1993). The lower leaves are entire, and the upper leaves have one to three lobes that are 0.4 to 1.2 inches (1 to 3 centimeters) deep (Hickman 1993). The daisy-like flower heads of Sonoma sunshine are yellow. The ray flowers have dark red stigmas. The disk flowers have white stigmas and white pollen but are otherwise yellow. Achenes are 0.1 to 0.15 inches (3 to 4 millimeters) long with small rounded or conic protuberances (papillate) and 4 to 6 strongly angled edges (CNPS 1997, Hickman 1993). Sonoma sunshine could be confused with common stickseed (Blenosperma nanum); however, Sonoma sunshine has longer and fewer lobes on the leaves and is more robust (CNPS 1977). The flowers of Sonoma sunshine are self-incompatible, meaning that they can set seed only when fertilized by pollen from a different plant.

Sonoma sunshine occurs only in Sonoma County. In the Cotati Valley, the species ranges from near the community of Fulton in the north to Scenic Avenue between Santa Rosa and Cotati in the south. Additionally, the species extends or extended from near Glen Ellen to near the junction of State Routes 116 and 121 in the Sonoma Valley. During 2001, two new natural populations were identified north and south of the City of Santa Rosa, increasing the number of previously identified CNDDDB occurrences from 26 to 28. Of the 28 occurrences, 21 are presumed to be extant with a majority occurring on the Santa Rosa Plain and one occurring in Glen Ellen. In addition, Sonoma sunshine has been introduced to at least one site on Alton Lane during mitigation activities. Seven populations within or near the City of Santa Rosa have been extirpated.

Sonoma sunshine grows in vernal pools and wet grasslands below 100 m (330 ft) (Hickman 1993). In the Sonoma and Cotati valleys, Sonoma sunshine occurs in vernal pools on nearly level to slightly sloping loams, clay loams, and clays, as described for Burke’s goldfields (56 FR 61173). The two concentrations of Sonoma sunshine on the Santa Rosa Plain occur on different soil types (Patterson et al. 1994). Sonoma sunshine likely grows on Huichica loam north of Highway 12 and on Wright loam and Clear Lake clay south of Highway 12 (Patterson et al. 1994, CNDDDB 1998). These soil series are briefly described in the discussion of Burke’s goldfields habitat above.

Sonoma sunshine is threatened with habitat loss, fragmentation, and degradation throughout all or part of its range by factors including urbanization, agricultural land use changes, and alterations in hydrology (Patterson et al. 1994, CH2M Hill 1995, CNDDDB 1998). In the Sonoma Valley, two of five known occurrences have been extirpated. One was extirpated by habitat destruction in 1986, and the area is now a vineyard. At the second site, most habitat was destroyed by grading for home sites in 1980; the remainder was converted to vineyard or overtaken by weeds (CNDDDB 1998). Of the presumed extant Sonoma Valley occurrences, one locality has been largely developed. A small area was retained by CDFG when the development took place, but Sonoma sunshine has not been recorded from this area since the subdivision was developed (Service files). A second Sonoma Valley locale is currently pasture. A portion of the occurrence may have been disced, and the landowners of a second portion want to convert the
locale to vineyard (C. Wilcox, 1998, pers. comm., Service files). The third Sonoma Valley occurrence is in Sonoma Valley Regional Park, which is not managed for conservation (CNDDB 1998). On the Santa Rosa Plain, one locale has probably been extirpated by completion of a subdivision and one locale by major land alterations on the locale (CNDDB 1998). Of the presumed extant locales, some support severely degraded habitat, are threatened by development, or have not supported confirmed populations of Sonoma sunshine in recent years (CH2M Hill 1995, CNDDB 1998).

Sebastopol Meadowfoam

Sebastopol meadowfoam was federally listed as endangered on December 2, 1991 (56 FR 61173). No critical habitat has been designated for this species. Sebastopol meadowfoam is an annual herb with weak, somewhat fleshy, decumbent stems up to 11.8 inches (30 centimeters) long. The seedlings are unusual among *Limnanthes* species in that they have entire leaves. Leaves of mature plants are up to 3.9 inches (10 centimeters) long and have 3 to 5 leaflets that are narrow and unlobed with rounded tips. The leaves are borne on long petioles; petiole length, like stem length, appears to be promoted by submergence. Sebastopol meadowfoam has fragrant, white flowers that are borne in the leaf axils during April and May. The flowers are bell-shaped or dish-shaped, with petals 0.47 to 0.71 inch (12 to 18 millimeters) long. The sepals are shorter than the petals. The petals turn outward as the nutlets mature. The nutlets are dark brown, 0.12 to 0.16 inch (3 to 4 millimeters) long, and covered with knobby pinkish tubercles (Patterson et al. 1994).

Historically, Sebastopol meadowfoam was known from 40 occurrences in Sonoma County and one occurrence (occurrence #39) in Napa County, at the Napa River Ecological Reserve. In Sonoma County, all but two occurrences were found in the central and southern portions of the Santa Rosa Plain. Occurrence #20 occurred at Atascadero Creek Marsh west of Sebastopol, and the second (#40) occurred in the vicinity of Knights Valley northeast of Windsor (CNDDB 2001).

The current condition of numerous Sebastopol meadowfoam occurrences is unclear, because many have not been visited in over 5 years. The southern cluster of occurrences extends 3 miles (5 kilometers) from Stoney Point Road west to the Laguna de Santa Rosa, and is bounded by Occidental Road to the north and Cotati to the south. The central cluster stretches 1.5 miles (2.41 kilometers) on either side of Fulton Road extending northwards from Occidental Road to River Road. Patterson et al. (1994) estimated that the Santa Rosa Plain occurrences represent only 10 hydrologically separate populations of Sebastopol meadowfoam. At least one occurrence (#21) has been extirpated from the Santa Rosa Plain (CNDDB 2002). Recent field surveys found that all three occurrences outside of the Santa Rosa Plain have probably been extirpated (CNDDB 2002).

The seeds of Sebastopol meadowfoam germinate after the first significant rains in fall, although late initiation of rains may delay seed germination. Sebastopol meadowfoam plants grow slowly
underwater during the winter, and growth rates increase as the pools dry. Repeated drying and filling of pools in the spring favors development of large plants with many branches and long stems. Sebastopol meadowfoam begins flowering as the pools dry, typically in March or April. The largest plants can produce 20 or more flowers. Flowering may continue as late as mid-June, although in most years the plants have set seed and died back by then (Patterson et al. 1994). Each plant can produce up to 100 nutlets (Patterson et al. 1994).

Nutlets of Sebastopol meadowfoam likely remain dormant in the soil, as they do for other species of *Limnanthes* (Patterson et al. 1994). One case presents strong circumstantial evidence for persistent, long-lived seed banks in this species. In the late 1980's and early 1990's, a site in Cotati remote from other Sebastopol meadowfoam colonies was surveyed for several years by independent qualified botanists. None of these botanists identified flowering populations of Sebastopol meadowfoam on the project site. Conditions of the pools on the site were highly degraded by wallowing hogs (*Sus scrofa*) and subsequent eutrophication of the pools. Following several years of negative surveys 12 plants of Sebastopol meadowfoam emerged simultaneously in one pool in the first year following removal of hogs. The population expanded rapidly to 60 plants the next year and was larger in subsequent years (Geoff Monk, personal communication), all limited to one pool. Long-distance dispersal is an improbable explanation for the simultaneous emergence of multiple plants at one location, so seed banks are implicated in this case as well. This example also indicates that lack of Sebastopol meadowfoam during periods of adverse conditions (drought, heavy disturbance, etc.) does not necessarily mean the population is extirpated.

This species grows in Northern Basalt Flow and Northern Hardpan vernal pools (Sawyer and Keeler-Wolf 1995), wet swales and meadows, on the banks of streams, and in artificial habitats such as ditches (Wainwright 1984; CNDDB 2002). The surrounding plant communities range from oak savanna, grassland, and marsh in Sonoma County to riparian woodland in Napa County (CNDDB 2002). Sebastopol meadowfoam grows in both shallow and deep areas, but is most frequent in pools 10 to 20 inches (25 to 51 centimeters) deep (Patterson et al. 1994). The species is most abundant in the margin habitat at the edge of vernal pools or swales (Pavlík et al. 2000, 2001). Most confirmed occurrences of Sebastopol meadowfoam on the Santa Rosa Plain grow on Wright loam or Clear Lake clay soils (Patterson et al. 1994, CNDDB 2002). A few occurrences are on other soil types, including Pajaro clay loam, Cotati fine sandy loam, Haire clay loam (Patterson et al. 1994) and Blucher fine sandy loam (Wainwright 1984).

Like Burke’s goldfields and Sonoma sunshine, Sebastopol meadowfoam has been and continues to be threatened by habitat loss, habitat degradation, and small population size. Causes of habitat loss include agricultural conversion, urbanization, and road maintenance. Habitat degradation is caused by excessive grazing by livestock, alterations in hydrology, and competition from non-native species (in some cases, exacerbated by removal of grazing), off-highway vehicle use, and dumping (56 FR 67113, Patterson et al. 1994, CH2M Hill 1995, CNDDB 2002).

**Recovery Actions**
A conservation strategy titled "Santa Rosa Plain Conservation Strategy" has been developed and finalized (Conservation Strategy Team 2005a) by a team of representatives from the U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, California Department of Fish and Game, Sonoma County and local Cities, North Coast Regional Water Quality Control Board, local governmental agencies, the Laguna de Santa Rosa Foundation, environmental community, and the private landowner community (Conservation Team).

The purpose of the Conservation Strategy is threefold: (1) to establish a long-term conservation program sufficient to compensate potential adverse effects of future development on the Santa Rosa Plain, and to conserve and contribute to the recovery of the California tiger salamander and a select group of listed plants (Sonoma sunshine, Burke’s goldfields, Sebastopol meadowfoam, and many-flowered navarretia) and the conservation of their sensitive habitat; (2) to accomplish the preceding in a fashion that protects stakeholders’ (both public and private) land use interests, and (3) to support issuance of an authorization for incidental take of California tiger salamanders and listed plants that may occur in the course of carrying out a broad range of activities on the Santa Rosa Plain. The Conservation Strategy is posted on the Service’s Sacramento office website (www.fws.gov/sacramento/es/santa_rosa_conservation.html.)

The Conservation Strategy is the biological framework upon which this biological opinion and future regulatory actions will be based. The Conservation Strategy will not preserve the species unless implemented by the appropriate agencies. The Conservation Strategy provides the biological basis for a permitting process for projects that are in the potential range of listed species on the Santa Rosa Plain. This is intended to provide consistency, timeliness and certainty for permitted activities. The Conservation Strategy study area is comprised of the potential California tiger salamander range and the listed plants’ range within the Santa Rosa Plain. The Conservation Strategy establishes interim and long-term mitigation requirements and designates conservation areas where compensation will occur. It describes how preserves will be established and managed. It also includes guidelines for translocation, management plans, adaptive management and funding. Finally, the document describes the implementation planning process.

In the future, the Service will prepare a programmatic biological opinion for the California tiger salamander and listed plants based on the Conservation Strategy, and potentially a future implementation plan. The Service will also prepare a recovery plan for the Sonoma County Distinct Population Segment of the California tiger salamander and listed plants as required by the Act. The Conservation Strategy will be the foundation of the recovery plan; however, it does not preclude the obligation of the Service to develop a recovery plan. Other future actions that may occur include the preparation of a Habitat Conservation Plan or Plans.

The County of Sonoma, the Cities of Santa Rosa, Cotati, Rohnert Park, the Town of Windsor, Service, and CDFG have commenced a process to develop a plan for implementing the Conservation Strategy. An implementation committee has been formed that is comprised of
elected and staff representatives of the local jurisdictions, staff representatives of Service and CDFG, and representatives of the agricultural, development, and environmental communities. The implementation plan is expected to provide a mechanism for applying the Conservation Strategy to cover public and private projects, agricultural activities, and residential and commercial development. The implementation planning process is proposed to be complete and in place within approximately two years from December 1, 2005, after which the local agencies and participating State and Federal agencies will take action regarding implementation of the Conservation Strategy.

As of December 1, 2005, there were approximately 598 acres (242 hectares) of existing preserves, compensation sites and open space that support tiger salamander habitat in Sonoma County. There were also approximately 462 acres (187 hectares) of pending mitigation banks, conservation banks, and compensation sites anticipated to be protected in perpetuity to offset adverse effects to the California tiger salamander, Sonoma sunshine, Sebastopol meadowfoam, and Burke’s goldfields.

Environmental Baseline

California Tiger Salamander at the Project Site

The project site is located within the potential range of the Sonoma County Distinct Population Segment of the California tiger salamander as defined in the Conservation Strategy (Conservation Strategy Team 2005a). The project site includes potential California tiger salamander habitat in the form of about 4.80 acres (1.94 hectares) of upland and 0.05 acre (0.02 hectare) of wetland habitat. Suitable aquatic breeding habitat for the California tiger salamander does not occur on the project site, but the entire property is within the 2,200 feet (690.6 meters) of the breeding site at the intersection of Hearn Avenue and Old Stony Point Road. The California tiger salamander population associated with this breeding site has been surveyed for five consecutive breeding seasons since February 2002. California tiger salamander adults, larvae, and/or eggs have been observed during each survey season at several locations on the property at the intersection of Hearn Avenue and Old Stony Point Road.

The proposed project site remains relatively undeveloped and lies northeast of the California tiger salamander breeding site at the intersection of Hearn Avenue and Old Stony Point Road. Previous development has eliminated much of the land surrounding this breeding site which historically probably served as upland aestivation habitat and likely provided additional breeding sites for the California tiger salamander. California tiger salamanders continue to breed at the breeding site at the intersection of Hearn Avenue and Old Stony Point Road, but the historic upland habitat for the California tiger salamander surrounding this breeding site has been substantially reduced, fragmented, or degraded. Remaining undeveloped open space areas throughout the action area are characterized as potential upland and seasonal wetland habitat for California tiger salamander dispersal, foraging, or refugia. The project site is relatively flat and consists primarily of annual grasslands with a few seasonal wetlands and abandoned orchard
trees on the property. The non-native grasslands on the project site contain Italian wild rye (Lolium multiflorum), Mediterranean barley (Hordeum gussoneanum spp. marinum), wild mustard (Brassica nigra), Harding grass (Phalaris aquatica), and rip-gut brome (Bromus diandrus). Seasonal wetlands occurring on the project site have very short hydroperiods which typically last two to three weeks during the rainy season each year. Plant species observed in the seasonal wetlands on the project site include Italian wild rye, Mediterranean barley, Harding grass, Hyssop loosestrife (Lythrum hyssopifolia), curly dock (Rumex crispus), bristly ox-tongue (Picris echioides), Douglas meadowfoam (Limnanthes douglasii), and rabbit’s-foot grass (Polypogon monspeliensis).

A California tiger salamander habitat assessment has been conducted on the project site, but no protocol level surveys for California tiger salamanders have been conducted on the property. California tiger salamanders have been documented at the following locations near the project site: (1) at the intersection of Hearn Avenue and Stony Point Road about 2,000 to 3,000 feet (609.6 to 914.4 meters) to the west and (2) breeding pond at the Southwest Community Park about 2,700 feet (822.96 meters) to the south. As a result of these detections of the California tiger salamander in or near the action area, the location of the project site to these detections, the biology and ecology of this animal, and the presence of suitable habitat on the project site, the Service has determined that it reasonable to conclude that the California tiger salamander inhabits the project site comprising the proposed action.

Sonoma Sunshine, Burke’s Goldfields, and Sebastopol Meadowfoam at the Project Site

The project site is located within the range of the Sebastopol meadowfoam, Sonoma sunshine, and Burke’s goldfields, and contains about 0.04 acre (0.016 hectare) of seasonal wetland habitat for these three listed plant species. Rare plant surveys were conducted on the project site on March 18 and 31, and April 16, 1997; and March 18 and April 8 and 25, 2002. The surveys were conducted in a manner intended to identify any listed plant species during the spring/summer blooming period. The target species for these surveys included Sonoma sunshine, Sebastopol meadowfoam, and Burke’s goldfields. No federally listed plant species were observed during any of the rare plant surveys conducted on the project site. Although no listed plant species were found on the project site during the surveys, the 0.04 acre (0.016 hectare) of seasonal wetlands on the project site is within the range of the Sonoma sunshine, Sebastopol meadowfoam, and Burke’s goldfields, and are considered potential habitat for these species.

California Tiger Salamander and the Three Listed Plants at the Mitigation Sites

The preserve identified in the Description of the Proposed Action section of this biological opinion is located within the potential range of the Sonoma County Distinct Population Segment of the California tiger salamander and the three listed plants as defined in the Conservation Strategy (Conservation Strategy Team 2005a). These areas have been approved as appropriate locations to provide compensation for the loss of habitat for the California tiger salamander and/or the three listed plants within the Santa Rosa Plain. These areas meet the Conservation Strategy’s preserve evaluation criteria which are designed to ensure that preserves contribute to
the long-term conservation of the California tiger salamander and/or the three listed plants in the Santa Rosa Plain. Below is a brief description of each of the proposed mitigation banks or preserves.

**Davis Preserve.** The 34.92-acre (14.13-hectare) Davis Preserve supports a mosaic of habitats, including vernal pools, seasonal wetlands and California tiger salamander breeding and upland habitat. The preserve has been approved by the Service and the CDFG, and is owned and managed by CDFG. The Davis Preserve supports approximately 9.72 acres (3.93 hectares) of vernal pools, swales and a drainage ditch. While Sebastopol meadowfoam occurred in approximately 2.73 acres (1.10 hectares) of these wetlands during an initial census all of the wetlands provide suitable habitat for Sebastopol meadowfoam. The number of Sebastopol meadowfoam plants in these wetlands is estimated to exceed 50,000. California tiger salamander larvae have been observed in at least seven different areas within the wetlands that occur at the site. The Davis Preserve is adjacent to the eastern boundary of the Engle Bank and across Todd Road from the Gobbi Mitigation Preserve. Additionally, there is contiguous undeveloped land to the north, west and south of the Davis Preserve. The Davis Preserve is within the Llano Conservation Area as defined in the Santa Rosa Plain Conservation Strategy.

**Hazel Mitigation Bank.** The 101.3-acre (40.99-hectare) Hazel Mitigation Bank supports a mosaic of habitats, including seasonal wetlands and California tiger salamander upland aestivation habitat. In July 2005, the Service issued a biological opinion authorizing take for the establishment of the Hazel Mitigation Bank, which would ultimately result in the temporary loss of 97.0 acres (23.05 hectares) of upland habitat for the California tiger salamander from the creation, restoration, and enhancement of wetlands on the property (Service File No. 1-1-05-F-0124). This bank has been approved by the Service and CDFG for wetland and California tiger salamander habitat credits. The bank is presently owned by CDFG and will ultimately be managed by this agency. The Hazel Bank is located along the southeast border of the Walker Road Mitigation Site and south-southwest of the Gobbi Mitigation Preserve. The Hazel Bank is surrounded by agricultural land and isolated residential and agricultural buildings. The Hazel Bank is within the Stony Point Conservation Area as defined in the Santa Rosa Plain Conservation Strategy.

**Effects of the Proposed Action**

The following effects analysis and compensation requirements are based on the interim guidelines for the Conservation Strategy (Conservation Strategy Team 2005b). The interim guidelines do not differentiate between temporary and permanent effects. However, they do differentiate between the required compensation ratios associated with the loss of habitat for the California tiger salamander and three listed plants.

**California Tiger Salamander**

The proposed action likely would have direct effects to California tiger salamanders through direct mortality, injury, or harassment of individual immature animals and adults. No permanent
or seasonal wetlands or ponds appropriate for California tiger salamander breeding would be directly lost from implementation of the proposed action. However, implementation of the proposed action would result in indirect effects to the breeding site near the intersection of Hearn Avenue and Old Stony Point Road by eliminating 4.85 acres (1.96 hectares) of upland and wetland habitat available to California tiger salamanders that could breed at this location.

Habitat on the project site would become unavailable to dispersing California tiger salamanders. Individual California tiger salamanders inhabiting the project site could be crushed by construction activities that result in the collapse or exposure of upland burrows and other refugia. Individual California tiger salamanders disturbed by project activities could attempt overland movements in an effort to find alternative upland habitat. These individuals could be harassed, injured, or killed by pedestrians, vehicles; and urban adapted predators during overland movements within the action area, or during attempts to find more suitable habitats in adjacent areas.

Construction related activities are likely to cause disruption of surface movement, disruption or complete loss of reproduction, harassment from increased human activity, and permanent and temporary loss of shelter. Individuals of this listed species also could fall into trenches, pits, or other excavations, and then be directly killed or unable to escape and be killed due to desiccation, entombment, or starvation. Individuals also may become trapped by plastic mono-filament netting used for erosion control or other purposes where they could be subject to death by predation, starvation, or desiccation (Stuart et al. 2001).

Various other work activities associated with the proposed action also may adversely affect California tiger salamanders. Trash left during or after project activities (and resulting from future residential development) could attract predators to work sites, which could subsequently harass or prey on the animals. For example, raccoons, crows, and ravens are attracted to trash and also prey opportunistically on amphibians. Accidental spills of hazardous materials or careless fueling or oiling of vehicles or equipment could degrade water quality or habitat to a degree where salamanders are adversely affected.

Increased levels of vehicles and increased vehicle speeds during construction and associated with the new residential communities could lead to an increased mortality level for the California tiger salamander in the action area. Amphibian road mortality risk ranges from 34-61 percent for a road with 3,200 vehicles per day to 89-98 percent for a road with 15,000 vehicles per day (Mazerolle 2004). Although no systematic studies road-crossing mortality of the Sonoma County Distinct Population Segment of the California tiger salamander have been conducted, it is known that significant numbers of California tiger salamanders in other portions of the species' range are killed by vehicular traffic while crossing roads (Hansen and Tremper 1993; S. Sweet 1993, in litt.; J. Medeiros, personal communication with the Service, 1993). For example, during a 1-hour period on a road bordering Lake Lagunita on the Stanford University campus, 45 California tiger salamanders were collected, 28 of which had been killed by cars (Twitty 1941). More recently, during one 15-day period in 2001 at a Sonoma County location, 26 road-killed
California tiger salamanders were found (D. Cook, Sonoma County Water Agency, personal communication with the Service 2002). Overall breeding population losses of California tiger salamanders due to road kills have been estimated to be between 25 and 72 percent (Twitty 1941; S. Sweet 1993, in litt.; Launer and Fee 1996). Mortality may be increased by associated roadway curbs and berms as low as 3 to 5 inches (9 to 12 centimeters), which allow California tiger salamanders access to roadways but prevent their exit from them (Launer and Fee 1996; S. Sweet 1998, in litt.). A recent study along a 0.7 miles (1.1 kilometers) high-vehicular-use (21,450 vehicles per day) section of the Trans-Canadian Highway in Alberta, Canada, Clevenger et al. (2001) recorded 183 road-killed tiger salamanders (Ambystoma species) in 30 days and concluded it was likely that very few of the local population had survived. California tiger salamander mortality on roads occurs throughout each rainy season on the Santa Rosa Plain due to cars running over salamanders that are moving to and from breeding sites.

Successful implementation of various proposed conservation measures may reduce mortality, injury, or harassment of California tiger salamanders. Appropriate compensation for the effects to California tiger salamander habitat from implementation of the proposed action is identified in the Description of the Proposed Action section of this biological opinion, as defined in the interim guidance for the Conservation Strategy (Conservation Strategy Team 2005b). This section also identifies the mitigation bank and preserve where habitat compensation would be provided for the proposed action. The Service has already authorized take of the California tiger salamander for the establishment of the Hazel Mitigation Bank (Service File No. 1-1-05-F-0124); no additional take is anticipated beyond the amount of take previously authorized. No take of California tiger salamanders is anticipated from the establishment and currently-planned operations of the Davis Preserve. Preservation of a total of 5.7 acres (2.31 hectares) of upland and seasonal wetland habitat within the Hazel Mitigation Bank and Davis Preserve would likely benefit the California tiger salamander by contributing to the overall recovery of this species. Overall the mitigation bank and preserve are anticipated to have a net beneficial effect for California tiger salamanders. Implementation of management plans for the bank and preserve likely would ensure that the conservation values of these areas would be maintained to provide optimal conditions for breeding, foraging, refugia, and dispersal of California tiger salamanders.

Burke's Goldfield, Sonoma Sunshine, and Sebastopol Meadowfoam

For the proposed action, plant surveys have been conducted on the project site. No listed plant species were observed during the previously-conducted surveys. However, the Service addresses adverse effects in this situation based on the potential for a seed bank to persist in the seasonal wetlands on the project site and the importance of unoccupied but restorable habitat for the three listed plant species to the survival and recovery of these species. Construction of the proposed action would result in the filling and permanent loss of approximately 0.04 acre (0.016 hectare) of seasonal wetland habitat within the described distribution of the Sebastopol meadowfoam, Sonoma sunshine, and Burke’s goldfield.

To minimize the adverse effects from the lost of 0.04 acre (0.016 hectare) of potential suitable
habitat for the three listed plants, the project proponent has purchased 0.05 acre (0.02 hectare) of wetland construction credits at the Hazel Mitigation Bank and preserved 0.05 acre (0.02 hectare) acres of listed plant habitat at the Davis Preserve. Preservation of 0.05 acre (0.02 hectare) of existing listed plant habitat and creation of 0.05 acre (0.02 hectare) of wetlands within the Davis Preserve and Hazel Mitigation Bank, respectively, would likely benefit the three listed plants by contributing to their overall recovery. Overall the bank and preserve are anticipated to have a beneficial effect for the three listed plants. Implementation of management plans for the Hazel Mitigation Bank and Davis Preserve likely would ensure that the conservation values of these areas would be maintained to provide optimal habitat conditions for these listed plants.

Cumulative Effects

Cumulative effects include the effects of future State, Tribal, local or private actions that are reasonably certain to occur in the action area considered in this biological opinion. Future Federal actions that are unrelated to the proposed action are not considered in this section because they require separate consultation pursuant to section 7 of the Act.

Cumulative effects to the California tiger salamander include continuing and future conversion of suitable breeding, foraging, sheltering, and dispersal habitat resulting from urban development. Additional urbanization can result in road widening and increased traffic on roads that bisect breeding and aestivation sites, thereby increasing road-kill while reducing in size and further fragmenting remaining habitats.

California tiger salamanders probably are exposed to a variety of pesticides and other chemicals throughout their range. California tiger salamanders also could die from starvation by the loss of their prey base. Hydrocarbon and other contamination from oil production and road runoff, the application of numerous chemicals for roadside maintenance; urban/suburban landscape maintenance; and rodent and vector control programs may all have negative effects on tiger salamander populations. In addition, California tiger salamanders may be harmed through collection by local residents.

A commonly used method to control mosquitoes, used in Sonoma County (Marin/Sonoma Mosquito and Vector Control District, internet website 2002), is the application of methoprene, which increases the level of juvenile hormone in insect larvae and disrupts the molting process. Lawrenz (1984) found that methoprene (Altosid SR 10) retarded the development of selected crustacea that had the same molting hormones (i.e. juvenile hormone) as insects, and anticipated that the same hormone may control metamorphosis in other arthropods. Because the success of many aquatic vertebrates relies on an abundance of invertebrates in temporary wetlands, any delay in insect growth could reduce the numbers and density of prey available (Lawrenz 1984).

Threats to Burke's goldfields, Sonoma sunshine, and Sebastopol meadowfoam such as unauthorized fill of wetlands, urbanization, increases in non-native species, and expanded irrigation of pastures with recycled wastewater discharge, are likely to continue with concomitant
adverse effects on these species resulting in additional habitat loss and degradation; increasingly isolated populations (exacerbating the disruption of gene flow patterns); and further reductions in the reproduction, numbers, and distribution of these species which will decrease their ability to respond to stochastic events.

Cumulative effects to Burke's goldfields, Sonoma sunshine, Sebastopol meadowfoam, and the California tiger salamander could increase in the future if the current application of the Corps' regulatory authority under the Clean Water Act changes. On January 9, 2001, the United States Supreme Court issued an opinion regarding Solid Waste Agency of Northern Cook County, Petitioner v. United States Army Corps of Engineers et al. (SWANCC) which addressed the Corps regulatory authority over isolated wetlands. The Corps' San Francisco District generally has regulated wetlands on the Santa Rosa Plain which are hydrologically connected to the Laguna de Santa Rosa, a tributary of the Russian River. However, following the SWANCC decision, we understand that the Corps has determined that some seasonal wetlands on the Santa Rosa Plain are isolated from navigable waters. Reduced application of the Corps' regulatory authority, and subsequent lack of section 7 consultation with the Service, on such isolated wetlands could result in increased impacts to federally listed species in the Santa Rosa Plain from future State, Tribal, local or private actions.

As stated in the Conservation Strategy, urban and rural growth on the Santa Rosa Plain has taken place for over one hundred years, and for the past twenty years urban growth has encroached into areas inhabited by the California tiger salamander and the listed plants. The loss of seasonal wetlands caused by development on the Santa Rosa Plain has led to declines in the populations of California tiger salamander and the listed plants. Voters in the cities of Cotati, Rohnert Park, Santa Rosa, and Sebastopol, and the Town of Windsor have established urban growth boundaries for their communities. This is intended to accomplish the goal of city-centered growth, resulting in rural and agricultural land uses being maintained between the urbanized areas. Therefore, it can be reasonably expected that rural land uses will continue into the foreseeable future. There are also areas of publicly owned property and preserves located in the Santa Rosa Plain, which will further protect against development. Some of the areas within these urban growth boundaries, however, include lands inhabited by California tiger salamanders and the listed plant species. Agricultural practices have also disturbed seasonal wetlands, California tiger salamanders and listed plant habitat on the Santa Rosa Plain. Some agricultural practices, such as irrigated or grazed pasture, have protected habitat from intensive development.

The Conservation Strategy was designed to plan for future cumulative effects from federal and non-Federal actions to the California tiger salamander and listed plant habitat within the Santa Rosa Plain. The Conservation Strategy and the interim guidelines are intended to benefit the California tiger salamander and the listed plants by providing a consistent approach for mitigation vital to habitat preservation and the long-term conservation of the species. They are also intended to provide more certainty and efficiency in the project review process. The Conservation Strategy and the interim guidelines provide guidance to focus mitigation efforts on preventing further habitat fragmentation and to establish, to the maximum extent possible, a
viable preserve system that will contribute to the long-term conservation and recovery of these listed species.

The County of Sonoma; Cities of Santa Rosa, Cotati, and Rohnert Park; Town of Windsor; Service; and CDFG have commenced a process to develop a plan for implementing the Conservation Strategy. An implementation committee has been formed that is comprised of elected and staff representatives of the local jurisdictions, staff representatives of Service and CDFG, and representatives of the agricultural, development, and environmental communities. The implementation plan is expected to provide a mechanism for applying the Conservation Strategy to cover public and private projects, agricultural activities, and residential and commercial development. The implementation planning process is proposed to be complete and in place within approximately two years, after which the local agencies and participating State and Federal agencies will take action regarding implementation of the Conservation Strategy.

Conclusion

After reviewing the current status of the Sonoma County Distinct Population Segment of the California tiger salamander, Burke’s goldfields, Sonoma sunshine, and Sebastopol meadowfoam, the environmental baseline for the action area, and the effects of the proposed action and the cumulative effects, it is the Service’s biological opinion that the proposed Burbank Housing Project is not likely to jeopardize the continued existence of the California tiger salamander and the three listed plants. We based these determinations on the following: (1) habitat losses would be limited to upland and aquatic non-breeding habitat for the California tiger salamander, (2) no California tiger salamander breeding ponds will be directly lost within the action area, (3) only 0.04 acre (0.016 hectare) of seasonal wetland habitat for the three listed plants would be permanently lost; (4) numerous conservation measures would be implemented to minimize the adverse effects on individual California tiger salamanders, and/or (5) preservation and management of 5.7 acres (2.31 hectares) of upland and seasonal wetland habitat would offset the permanent loss of habitat for the California tiger salamander and three listed plants as a result of the proposed action. Critical habitat has not been proposed or designated for the Sonoma County Distinct Population Segment of the California tiger salamander and the three listed plants in the Santa Rosa Plain; therefore none will be adversely modified or destroyed.

INCIDENTAL TAKE STATEMENT

Section 9 of the Act and Federal regulation pursuant to section 4(d) of the Act prohibit the take of endangered and threatened species, respectively, without special exemption. Take is defined as harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. Harass is defined by the Service as an intentional or negligent act or omission which creates the likelihood of injury to a listed species by annoying it to such an extent as to significantly disrupt normal behavioral patterns which include, but are not limited to, breeding, feeding, or sheltering. Harm is defined by the Service to include significant habitat
modification or degradation that results in death or injury to listed species by impairing behavioral patterns including breeding, feeding, or sheltering. Incidental take is defined as take that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity. Under the terms of section 7(b)(4) and section 7(o)(2), taking that is incidental to and not intended as part of the agency action is not considered to be prohibited taking under the Act provided that such taking is in compliance with this Incidental Take Statement.

The measures described below are non-discretionary, and must be implemented by the U.S. Department of Housing and Urban Development so they become binding conditions of project authorization for the exemption under 7(o)(2) to apply. The U.S. Department of Housing and Urban Development has a continuing duty to regulate the activity that is covered by this incidental take statement. If the U.S. Department of Housing and Urban Development (1) fails to adhere to the terms and conditions of the incidental take statement through enforceable terms, and/or (2) fails to retain oversight to ensure compliance with these terms and conditions, the protective coverage of 7(o)(2) may lapse.

Sections 7(b)(4) and 7(o)(2) of the Act do not apply to listed plant species. However, protection of listed plants is provided to the extent that the Act requires a Federal permit for removal or reduction to possession of endangered and threatened plants from areas under Federal jurisdiction, or for any act that would remove, cut, dig up, damage, or destroy any such species on any other area in knowing violation of any regulation of any State or in the course of any violation of a State criminal trespass law.

**Amount or Extent of Take**

The Service anticipates that incidental take of the Sonoma County Distinct Population Segment of the California tiger salamander will be difficult to detect or quantify for the following reasons: the activity patterns of California tiger salamanders makes the finding of a dead specimen unlikely, losses may be masked by annual fluctuations in numbers, and the species occurs in habitat that makes it difficult to detect. Due to the difficulty in quantifying the number of the California tiger salamanders that will be taken as a result of the proposed action, the Service is quantifying take incidental to the proposed Burbank Housing Project as the number of acres of habitat that will be affected as a result of the action. Therefore, the Service estimates that the proposed action will result in the take of all California tiger salamanders inhabiting or utilizing the 4.85 acres (1.96 hectares) of appropriate habitat identified in the action area. Anticipated take is expected to be in the form of harm, harassment, capture, injury, and mortality from habitat loss and modification, construction related disturbance, increased predation, reduced fitness, and increased vehicular traffic. No take associated with the establishment and currently-planned operations of any of the proposed mitigation sites is authorized under this biological opinion.
Effect of the Take

In the accompanying biological opinion, the Service determined that this level of anticipated take is not likely to result in jeopardy to the Sonoma County Distinct Population Segment of the California tiger salamander. Critical habitat has not been proposed or designated for the Sonoma County Distinct Population Segment of the California tiger salamander in the Santa Rosa Plain; therefore none will be adversely modified or destroyed.

Reasonable and Prudent Measures

The following reasonable and prudent measures are necessary and appropriate to minimize the effect of the proposed Burbank Housing Project on the Sonoma County Distinct Population Segment of the California tiger salamander:

1. The proposed action will be implemented by the project proponent as described in the August 21, 2006, Biological Assessment and this biological opinion.

2. Reduce effects to the California tiger salamander.

3. Ensure compliance with this biological opinion by the project proponent.

Term and Conditions

To be exempt from the prohibitions of section 9 of the Act, the U.S. Department of Housing and Urban Development shall ensure compliance with the following terms and conditions, which implement the reasonable and prudent measures described above. These terms and conditions are non-discretionary.

1. The following Terms and Conditions implement Reasonable and Prudent Measure one (1):

   a. The project proponent shall minimize the potential for harm, harassment, or killing of federally listed species resulting from project related activities by implementation of the conservation measures as described in the August 21, 2006, Biological Assessment, and appearing in the Description of the Proposed Action section of this biological opinion.

   b. The project proponent shall make the terms and conditions in this biological opinion a required term in all contracts for the proposed action that are issued to all contractors.

2. The following Terms and Conditions implement Reasonable and Prudent Measure two (2):
a. The project proponent shall designate a Superintendent or other designee who will be responsible for implementing the conservation measures and Terms and Conditions of this biological opinion and shall be the point of contact for the proposed action. The Superintendent shall maintain a copy of this biological opinion onsite whenever construction is taking place. Their name and telephone number shall be provided to the Service at least thirty (30) calendar days prior to groundbreaking at the project. Prior to groundbreaking, the Superintendent must submit a letter to the Service verifying that they possess a copy of this biological opinion and have read the Terms and Conditions.

b. A qualified biologist(s) or trained monitor(s) shall be onsite during all activities that may result in the take of the Sonoma County Distinct Population Segment of the California tiger salamander. The qualifications of the biologist(s) and monitor(s) must be presented to the Service for review and written approval prior to ground-breaking at the project site. Prior to approval, the biologist(s) and monitor(s) must submit a letter to the Service verifying that they possess a copy of this biological opinion and understand its Terms and Conditions. The biologist(s) and monitor(s) will keep a copy of this biological opinion in their possession when onsite. The biologist(s) and monitor(s) shall be given the authority to stop any work that may result in take of this listed animal species. If the biologist(s) or monitor(s) exercises this authority, the Service and the CDFG shall be notified by telephone and electronic mail within one (1) working day. The Service contact is Chris Nagano, Deputy Assistant Field Supervisor, Endangered Species Division at the Sacramento Fish and Wildlife Office at telephone (916) 414-6600.

c. The onsite biologist(s) or monitor(s) shall have oversight over implementation of all the Terms and Conditions in this biological opinion, and shall have the authority to stop project activities, through communication with the Superintendent, if any of the requirements associated with these Terms and Conditions are not being fulfilled. If the biologist/construction liaison has requested a stop work due to take of any of the listed species the Service and the CDFG will be notified within one (1) working day via email or telephone.

d. Permanent and temporary disturbances and other types of project-related disturbance to habitats of the California tiger salamander shall be limited to the boundaries of the project site.

e. Prior to the initiation of ground disturbance on the project site, pre-construction surveys shall be conducted by a Service-approved biologist(s) for the California tiger salamander. These surveys shall consist of walking surveys of the project site and adjacent areas accessible to the public to determine presence of the species. California tiger salamanders will be removed by the biologist(s) and translocated under the direction and authorization of the Service and as described in the Conservation Strategy.
f. All California tiger salamanders captured on the project site during monitoring and inspections conducted during construction will be removed by the biologist(s) and translocated under the direction and authorization of the Service and as described in the Conservation Strategy.

g. To prevent inadvertent entrapment of California tiger salamanders during construction, all excavated, steep-walled holes or trenches more than 2 feet (0.61 meters) deep shall be covered at the close of each working day by plywood or similar materials, or provided with one or more escape ramps constructed of earth fill or wooden planks. Before such holes or trenches are filled, they must be thoroughly inspected for trapped animals. If at any time a trapped listed animal is discovered, the on-site biologist should immediately place escape ramps or other appropriate structures to allow the animal to escape, or the Service and/or CDFG shall be contacted by telephone for guidance. The Service shall be notified of the incident by telephone and electronic mail within one working day.

h. The construction area at the project site shall be delineated with high visibility temporary fencing at least 4 feet (1.2 meters) in height, flagging, or other barrier to prevent encroachment of construction personnel and equipment onto any sensitive areas during project work activities. Such fencing shall be inspected and maintained daily until completion of the project. The fencing will be removed only when all construction equipment is removed from the site. Actions within the project area shall be limited to vehicle and equipment operation on existing roads. No project activities will occur outside the delineated project construction area.

i. Plastic mono-filament netting (erosion control matting), or similar material, shall not be used on the project site because California tiger salamanders may become entangled or trapped in it. Acceptable substitutes include coconut coir matting or tackified hydroseeding compounds.

k. Project employees shall be provided with written guidance governing vehicle use, speed limits on unpaved roads, fire prevention, and other hazards.

l. An outline of the employee training program shall be submitted to the Endangered Species Program at the Sacramento Fish and Wildlife Office within twenty (20) working days prior to the start of construction. Documentation of the training, including individual signed affidavits, will be kept of file and available on request.

3. The following Terms and Conditions implement Reasonable and Prudent Measure three (3):

a. If requested, before, during, or upon completion of ground breaking and construction activities, the project proponent shall allow access by Service and/or CDFG personnel
to the project site to inspect project effects to the California tiger salamander and its habitat.

b. The project proponent shall provide the Service with adequate annual written reports that describe the progress of implementation of all of the Terms and Conditions of this biological opinion. The first report is due December 31, the first year of groundbreaking, and annually thereafter on December 31 until all of the terms and conditions are completed, as stated in writing by the Service. The reports shall be addressed to Ryan Olah, Coast Bay Delta Branch Chief, Sacramento Fish and Wildlife Office.

c. The project proponent shall report to the Service any information about take or suspected take of listed wildlife species not authorized in this biological opinion. The project proponent must notify the Service via electronic mail and telephone within 24 hours of receiving such information. Notification must include the date, time, location of the incident or of the finding of a dead or injured animal, and photographs of the specific animal. The individual animal shall be preserved, as appropriate, and held in a secure location until instructions are received from the Service regarding the disposition of the specimen or the Service takes custody of the specimen. The Service contacts are Chris Nagano, Deputy Assistant Field Supervisor, Endangered Species Program, Sacramento Fish and Wildlife Office at (916) 414-6600, and the Service's Law Enforcement Division at (916) 414-6660.

Reporting Requirements

The U.S. Department of Housing and Urban Development shall submit post-construction compliance reports prepared by the on-site biologist to the Sacramento Fish and Wildlife Office within sixty (60) calendar days of the date of the completion of construction activity on the project site. These reports shall adequately describe (i) dates that construction occurred; (ii) pertinent information concerning the success of the project in meeting compensation and other conservation measures; (iii) an explanation of failure to meet such measures, if any; (iv) known project effects on the California tiger salamander and listed plants, if any; (v) occurrences of incidental take of any of these listed species, if any; (vi) documentation of employee environmental education; and (vii) other pertinent information.

The Service must be notified within 24 hours of the finding of any injured or dead California tiger salamander, or any unanticipated damage to its habitat associated with the proposed action. Injured California tiger salamanders shall be cared by a licensed veterinarian or other qualified person. Notification must include the date, time, and precise location of the specimen/incident, and any other pertinent information. Dead animals should be sealed in a zip lock bag containing a piece of paper indicating the location, date and time when it was found, and the name of the person who found it; and the bag should be frozen in a freezer in a secure location. The Service contact persons are Chris Nagano, Deputy Assistant Field Supervisor (Endangered Species
CONSERVATION RECOMMENDATIONS

Section 7(a)(1) of the Act directs Federal agencies to utilize their authorities to further the purposes of the Act by carrying out conservation programs for the benefit of endangered and threatened species. Conservation recommendations are discretionary agency activities that can be implemented to further the purposes of the Act, such as preservation of endangered species habitat, implementation of recovery actions, or development of information and data bases.

In order for the Service to be kept informed of actions minimizing or avoiding adverse effects or benefiting listed species or their habitats, the Service requests notification of the implementation of any conservation recommendations. We make the following conservation recommendations:

1. The employee education program conducted before groundbreaking for the proposed action should also include information about the Burke's goldfields, Sonoma sunshine, and Sebastopol meadowfoam, including a description of their habitat needs; their status and protection; and a description of the measures being taken to reduce effects to these species during project construction and implementation.

2. The project proponent should attempt to translocate any listed plants, including their seeds and/or soils containing seeds, within the action area under the authorization and direction of the Service and as outlined in the Conservation Strategy.

3. Encourage or require the use of appropriate California native species in revegetation and habitat enhancement efforts associated with projects authorized by the U.S. Department of Housing and Urban Development.

4. Facilitate educational programs geared toward the importance and conservation of seasonal wetlands.

5. Encourage seed banking in Center for Plant Conservation certified botanic gardens (provided the seed collection does not adversely affect the source populations).

6. Assist the Service in implementing the Conservation Strategy and recovery actions being developed for the California tiger salamander, Burke's goldfields, Sonoma sunshine, Sebastopol meadowfoam, and many-flowered Navarretia.

7. Sightings of any listed or sensitive species should be reported to the California Natural Diversity Database of the California Department of Fish and Game. A copy of the
reporting form and a topographic map clearly marked with the location where the individuals were observed should also be provided to the Service.

To be kept informed of actions minimizing or avoiding adverse effects or benefiting listed and/or proposed species or their habitats, the Service requests notification of the implementation of these recommendations.

REINITIATION - CLOSING STATEMENT

This concludes formal consultation on the action on the proposed Burbank Housing Project in Santa Rosa, Sonoma County, California. As provided in 50 CFR § 402.16, reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has been retained (or is authorized by law) and if: (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; (3) the agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not considered in this opinion; or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must cease pending reinitiation. Please contact Jim Browning or Ryan Olah at the letterhead address or at (916) 414-6623, if you have any questions regarding this biological opinion on the proposed Burbank Housing Project.

Sincerely,

Cay C. Goude
Acting Field Supervisor

cc: City of Santa Rosa Department of Community Development, Santa Rosa, California
    Jane M. Hicks, CBSF, San Francisco, California
    Scott Wilson, CDFG, Yountville, California
    Liam Davis, CDFG, Yountville, California
    Stephen Bargsten, RWQCB, Santa Rosa, California
LITERATURE CITED


*hammondii hammondii* Girard. Master’s thesis, Department of Biology, Fresno State College, Fresno, California. 58 pages.


U.S. Fish and Wildlife Service (Service). 1991. Determination of endangered status for three plants: Blemnosperma bakeri (Sonoma sunshine or Baker's stickyeed), Lasthenia burkei (Burke's goldfields), and Limnanthes vinculans (Sebastopol meadowfoam). Federal Register 56: 67113.


2004a. Endangered and threatened wildlife and plants; determination of threatened status for the California tiger salamander; and special rule exemption for existing routine ranching activities; final rule. *Federal Register* 69: 47212-47248.


**IN LITT. CITATIONS**


_____ . 31 August 1998 letter to Dwight Harvey, U.S. Fish and Wildlife Service. With enclosed report, "Vineyard development posing an imminent threat to *Ambystoma californiense* in Santa Barbara County, California."
PERSONAL COMMUNICATIONS


BIOLOGICAL ASSESSMENT

1980 AND 2010 BURBANK AVENUE

SANTA ROSA, SONOMA COUNTY, CALIFORNIA

LSA

August 21, 2006
BIOLOGICAL ASSESSMENT

1980 AND 2010 BURBANK AVENUE
SANTA ROSA, SONOMA COUNTY, CALIFORNIA

Submitted to:
Burbank Housing Corporation
790 Sonoma Avenue
Santa Rosa, California 95404
(707) 526-1020

Prepared by:
LSA Associates, Inc.
157 Park Place
Point Richmond, California 94801
(510) 236-6810
LSA Project No. BHD0601

LSA

August 21, 2006
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1.0 INTRODUCTION

1.1 PURPOSE OF THIS BIOLOGICAL ASSESSMENT

This biological assessment reviews the Burbank Housing Corporation Residential Development in sufficient detail to determine if and how the proposed project may affect species that are listed, proposed for listing, or candidates for protection under the federal Endangered Species Act. The project is located within the Burbank Avenue Annexation Area of Santa Rosa (Figures 1 and 2) at 1980 and 2010 Burbank Avenue (Parcel Nos. 125-421-018 and 125-421-019). The total project area is 4.85 acres.

The goal of this BA is to obtain a Biological Opinion from the Service covering the project, a constituent of the proposed City of Santa Rosa Burbank Avenue Annexation Area. A separate biological assessment under Section 7 of the Endangered Species Act was previously prepared for the project as part of the project’s Corps of Engineers permit application process. The previous BA, prepared by Dr. Laurence P. Stromberg (2003), is provided in Appendix A. It should be noted that the Corps subsequently determined that all waters on the project site are non-jurisdictional due to isolation; and therefore no federal wetland permit is required. However, a Section 7 nexus exists because the project is being considered for funding through the Federal Housing and Urban Development (HUD) Home Investments Partnership (“HOME”) program.

This BA is prepared in accordance with legal requirements set forth in Section 7 of the Endangered Species Act (19 U.S.C. 1536[e]), and follows the standards established by the U.S. Fish and Wildlife Service (Service). It also provides information needed for the California Department of Fish and Game (CDFG) to issue a permit for state-listed species under Section 2081 of the Fish and Game Code.

1.2 SPECIES COVERED IN THIS DOCUMENT

This document focuses on the following federal and state listed species for which the project site provides suitable habitat or whose range of potential occurrence includes the project site:

- California tiger salamander (*Ambystoma californiense*) Federal Threatened, State Species of Special Concern
- Sonoma sunshine (*Blemnosperma bakeri*) Federal Endangered, State Endangered
- Burke’s goldfields (*Lasthenia burkei*) Federal Endangered, State Endangered
- Sebastopol meadowfoam (*Limanthus vinculans*) Federal Endangered, State Endangered
1.3 DESCRIPTION OF PROPOSED PROJECT AND PROJECT SITE

The project is located south of State Highway 12 and west of U.S. Highway 101 in the City of Santa Rosa (Figures 1 and 2). The project site is located at 1980 and 2010 Burbank Avenue, northeast of the intersection of Burbank Avenue with Hearn Avenue. The area is within un-sectioned lands of the Cabeza de Santa Rosa Rancho in T7N, R8W, on the Santa Rosa, California 7.5-minute USGS quadrangle.

The Burbank Housing Corporation Residential Development entails construction of approximately 90 units of affordable single family homes. The developer, Burbank Housing Corporation, is a non-profit organization dedicated to increasing the supply of low income and very low income housing in Sonoma County. The 4.85-acre project site consists of abandoned pasture with an old horse-riding ring and remnant orchard trees (Figure 2). Existing residential subdivisions lie to the north, east and west; a mix of pasture lands, homes and other rural structures lies to the south.

1.4 SCHEDULE

Construction of the project is anticipated to commence in the late spring 2007 and be completed by late 2008.

1.5 RESPONSIBLE PARTIES

Burbank Housing Corporation
Mr. Pascal Sisich, Director of Housing Development
790 Sonoma Avenue
Santa Rosa, CA 95404
707 526-1020

1.6 CONSULTATION TO DATE

- No Effect Letter Request. A CTS assessment was prepared by Laurence Stromberg, Ph.D. and submitted to the Service on October 20, 2003, as part of a request for a “no-effect” letter to the Service (Appendix A). In a December 10, 2003 letter, the Service responded to the “no-effect” letter request (Appendix A). The Service’s response stated that there was a reasonable likelihood that the project would result in take of CTS and that Burbank Housing should either commence protocol surveys for CTS on the site or should pursue incidental take authorization under either Section 7 or Section 10 of the Endangered Species Act.

- Biological Assessment - Request for Section 7 Consultation. Burbank Housing prepared an application to the Corps of Engineers for authorization under NWP18. The application was submitted to the Corps in July 2005 and included a copy of a master BA for three project sites in the Burbank Annexation Area. In addition to the CTS assessment (Appendix A), two years of rare plant surveys of the Burbank Housing site conducted by Dr. Stromberg are provided in Appendix C. Subsequent to the request for authorization under NWP18, the Corps determined that all waters on the project site are non-jurisdictional due to isolation; and therefore no federal wetland permit is required. However, a Section 7 nexus exists because the project is being
2.0 METHODS

Assessment methods for the project site are described below and in the previous BA and related reports (Appendices A and B). These methods are briefly summarized below.

2.1 LITERATURE/AERIAL PHOTO REVIEW

The California Natural Diversity Database (CDFG 2002-2005) was researched for recent sightings of California tiger salamander and observations of occurrence of listed plant species by other biologists working on the Santa Rosa Plain. Literature review included (1) Cook and Northern’s unpublished manuscript (Cook and Northern 2001) to identify known records of California tiger salamander within 3.1 miles (5 km) of the project site, and (2) Seasonal Wetland Baseline Report for the Santa Rosa Plain (Patterson et al. 1994). Digital maps of these records, as well as available range maps (Center for Biological Diversity 2001, Cook and Northern 2001, USFWS 2003a), were analyzed relative to their proximity to the project site using a Geographical Information System.

2.2 FIELD INVESTIGATIONS AND SURVEYS

Rare Plant Surveys. Two years of rare plant surveys were conducted by botanists on the site. These surveys were conducted in accordance with guidelines described in the Programmatic Formal Consultation for U.S. Army Corps of Engineers 404 Permitted Projects that may affect Four Endangered Plant Species on the Santa Rosa Plain (Corps File Number 22342N, July 17, 1998).

CTS Assessments. CTS site assessments were conducted in accordance with guidelines described in Interim Guidance on Conducting Site Assessments and Field Surveys for Determining Presence or a Negative Finding of the California Tiger Salamander (USFWS 2003b). During the course of these site assessments, observations were recorded in field notes on the presence of features that would be favorable for California tiger salamanders as terrestrial habitat. The assessments included evaluating burrowing rodent activity and identifying other natural or man-made cover that could provide suitable upland retreats for salamanders.
3.0 EXISTING CONDITIONS

Existing physical and biological conditions are described in detail in Appendices A and B. These appendices include floral and faunal lists for the site vegetation map. Biological conditions are briefly summarized below.

3.1 VEGETATION

Vegetation on the project site is essentially a mix of non-native herbaceous weedy species associated with annual grasslands used as horse pastures or occurring on abandoned orchard land. Vegetation types are shown on Figure 3, and consist of the following:

**Non-Native Grassland.** This is the predominant plant community on the site (Figure 3). It consists of sparse to dense cover of non-native grasses and ruderal forbs, primarily Italian wild rye (*Lolium multiflorum*), Mediterranean barley (*Hordeumussoneanum* spp. *marinum*), wild mustard (*Brassica nigra*), Harding grass (*Phalaris aquatica*) and rip-gut brome (*Bromus diandrus*). This grassland type is found in areas on all three sites currently or previously used as horse pastures and paddocks, and in former orchard stands where most of the trees have been removed. The total area of non-native grassland is 4.81 acres.

**Seasonal Wetlands.** Depressions on the Burbank Housing site support small stands of seasonal wetlands characterized by ruderal hydrophytes, such as Italian wild rye, Mediterranean barley, Harding grass, curly dock (*Rumex crispus*) and bristly ox-tongue (*Picris echioides*). These seasonal wetlands appear to be the result of surface disturbance rather than caused by natural topographic features and have very short hydroperiods (typically lasting 2-3 weeks following significant rainfall events each year). They were determined by the Corps of Engineers to be isolated from jurisdictional waters of the U.S. on both sites. The total area of ruderal seasonal wetlands is 0.02 acre.

A seasonal wetland dominated by Italian wild rye, dallis grass (*Paspalum dilatatum*), nut sedge (*Cyperus eragrostis*) and Harding grass is found along a 0.01-acre roadside swale on the Burbank Housing site. The roadside swale seasonal wetland was also determined by the Corps to be non-jurisdictional.

**Vernal Pool.** The Burbank Housing site supports one small (0.02 acre) seasonal wetland that supports vernal pool vegetation. This pool was determined by the Corps to be isolated from waters of the U.S. (Figure 3). This pool contains a sparse of Douglas meadowfoam (*Limnianthes douglasii*), rabbit’s-foot grass (*Polypogon monspeliensis*), loosestrife (*Lythrum hyssopifolium*), and Italian wild rye.
3.2 WILDLIFE

Wildlife species that may potentially occur within the project site include common grassland species. The grasslands and associated small stands of seasonal wetlands can support burrowing and surface animals such as mice, moles, shrews, gophers, earth worms and a host of others. Provide an essential food resource to snakes, mammals of wider habitat range, and to raptorial birds (hawks, kestrels, kites, shrikes, and owls). It is not likely larger carnivorous mammals (i.e. coyote) or deer make more than incidental use of the site. Raptorial birds, as well as many other smaller perching birds associated with grasslands, such as house finch, meadowlark, quail, Brewer's blackbird and sparrows, likely use the site.

Species observed during site surveys included turkey vulture (fly over) (*Cathartes aura*), American crow (*Corvus brachyrhynchos*), Brewer's blackbird (*Euphagus cyanocephalus*), house finch (*Carpodacus mexicanus*), northern mockingbird (*Mimus polyglottos*) and Botta's pocket gopher (burrows) (*Thomomys bottae*).

3.3 SPECIAL STATUS SPECIES

The previous biological assessment provides detailed lists of all special status species with the potential to occur on the site, the status of each species, characteristic habitat and related information (Appendix A). Based on the results of the individual site assessments, the following federal or state-listed species have the potential to occur on the site:

- California tiger salamander _Federal Threatened_
- Sonoma sunshine _Federal Endangered, State Endangered_
- Burke's goldfields _Federal Endangered, State Endangered_
- Sebastopol meadowfoam _Federal Endangered, State Endangered_
- Many-flowered navarretia _Federal Endangered, State Endangered_

Species accounts are provided in Appendix A and B.

3.4 ASSESSMENT AND SURVEY RESULTS

California Tiger Salamander. No potential CTS breeding habitat exists on the site (Appendix A). The seasonal wetlands, vernal pool and roadside swale do not provide habitat conditions suitable to allow CTS breeding and metamorphosis. These are all shallow depressional features overlying soils with relatively rapid infiltration that sustain only short hydroperiods.

For the site to be considered "suitable aestival habitat," it must possess upland areas with rodent activity or soil fissures and be within a suitable vicinity (i.e. no more than 2 km) and accessible to known CTS breeding habitat. The project site supports grasslands with evidence of rodent burrowing activity. The nearest known breeding site occurs within 2 km of the site at the corner of Hearns Avenue and Old Stoney Point Road (CNDDB Site 653). Distances of the nearest portions of the project site to the nearest breeding site are as follows: 4.2 acres are within 2,210 ft (0.67 km) and 0.65 acre are within 2,010 ft (0.61 km) (Figure 4).
Given that the site is comprised mostly of upland non-native annual grassland and known breeding areas occur within 2 km of the site, it may be feasible that the site provides potential suitable CTS aestival or dispersal habitat. However, CTS would be unlikely to utilize the site for such habitat because of (1) the distance (0.61-0.67 km) from the nearest known breeding site; (2) the presence of other suitable aestival areas closer to the breeding sites; and (3) the site’s locations within a fragmented urban landscape separated from the breeding sites by obstacles such as apartment complexes, curbs and gutters, flood control channels and Hearn Avenue.

**Listed Plant Species.** No special status plants were observed during two years of protocol level field surveys of the site (Appendix C). With the exception of one small seasonal wetland that supports vernal pool vegetation, the site does not provide suitable habitat for any of the listed vernal pools species on the Santa Rosa Plain. This is the primary reason these species are absent from the project sites. In addition, past agricultural land use and disturbances including flood control measures have altered the original condition of the land, resulting in conversion of the original native flora to weedy non-native grassland.
4.0 IMPACTS AND MITIGATION

4.1 IMPACTS
The only potential impacts on federal or state listed species from the project will be the loss of suitable upland habitat (i.e., aestivation and/or dispersal habitat) for CTS. Suitable upland habitat on the site occurs within grasslands. Impacts to CTS upland habitat are summarized in Table A.

4.2 MITIGATION MEASURES

Mitigation Ratios. Based on the Service’s Interim Mitigation Guidelines discussed in Section 1.7, the project should comply with the mitigation ratios contained in Table A.

Mitigation Locations. The project will meet the required CTS mitigation ratios at an appropriate off-site mitigation bank approved by the Service. Burbank Housing has currently reserved 5.6 acres of credits from the proposed Davis Preservation Bank (see credit reservation letter from Davis Preserve, LLC - Appendix D).

Table A. Impacts to California Tiger Salamander Upland Habitat Based on Distance from Nearest Breeding Habitat

<table>
<thead>
<tr>
<th>Impacts beyond 2,200 feet</th>
<th>Impacts between 500 and 2,200 feet</th>
<th>Appropriate Mitigation Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.2</td>
<td>0.7</td>
<td>2:1 = 1.4 acres</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1:1 = 4.2 acres</td>
</tr>
</tbody>
</table>
5.0 REFERENCES

California Department of Fish and Game (CDFG). 2002-2005. California Natural Diversity Database (CNDDB). CDFG Natural Heritage Division, Sacramento, CA


APPENDIX A

BURBANK HOUSING BIOLOGICAL ASSESSMENT AND NO EFFECT REQUEST LETTER
October 30, 2003

Mr. Dan Buford  
Sacramento Field Office 
U. S. Fish and Wildlife Service 
2800 Cottage Way, Room W-2605 
Sacramento, CA 95825

SUBJECT: REQUEST FOR A NO-EFFECT DETERMINATION, 2000 BURBANK SITE, SANTA ROSA, CALIFORNIA

Dear Dan:

On behalf of Mr. John Lowry of the Burbank Housing Development Corporation, the applicant planning to develop the approximately 6.8-acre site on Burbank Avenue in southeast Santa Rosa, I am requesting that the U. S. Fish and Wildlife Service (FWS) issue a letter stating that development of the site would have no impact on the California tiger salamander (Ambystoma californiense) (CTS) or its habitat. The site is located in southeast Santa Rosa (Figure 1) on the east side of Burbank Avenue, approximately 1,200 ft. north of Hearn Avenue (Figure 2).

To date, no CTS surveys have been conducted on the site but this request for a "no-effect" determination is made with the knowledge that the site is located within the potential range of the Sonoma County distinct population segment of the California tiger salamander as mapped by the FWS (Figure 3). Figure 3, however, appears to have been based on out-of-date aerial photographs and plans because the range map does not recognize that the area between U. S. Highway 101 and Santa Rosa Avenue west of the site and the properties to the north and south of the site have been developed.

Although the site itself is currently undeveloped, the surrounding land to the north, west, and south, has been developed for more than 20 years and the buildings, roads -- including U. S. Highway 101 -- walls, etc. present impenetrable barriers between the site and the nearest known breeding habitat.

The bases for the request rest in the life history and behavior of the species, an assessment of the site, and the land use history of the surrounding properties.

1.0. EXISTING CONDITIONS

The site is abandoned pasture land surrounded by residential development. Some small sheds and outbuildings occur along the north property line have begun to deteriorate and collapse. An oval
Applicant:
Mr. John Lowry
Burbank Housing Development Corporation
3432 Mendocino Avenue
Santa Rosa, CA 95403
707-526-9782

Project Site:
2000 Burbank Avenue
Santa Rosa, California

Approximate Scale:
1:24,000
Base: U.S.G.S.
topographic quadrangles

Figure 2
Project Location
Applicant:
Mr. John Lowry
Burbank Housing Development Corporation
3432 Mendocino Avenue
Santa Rosa, CA 95403
707-526-9782
Project Site:
2000 Burbank Avenue
Santa Rosa, California

Approximate Scale:
1:100,000

Base: U.S. Fish and Wildlife Service map,
October 15, 2002

Figure 3.
Location of the Property at 2000 Burbank Avenue with Respect to
the Potential Range Map of the Sonoma California Tiger Salamander
ring visible on 1997 aerial photographs suggests that the site has been most recently used to ride horses.

1.1. Physical and Hydrologic Conditions

The site is relatively level. The total difference in elevation over the entire site appears to be less than one foot. The site slopes very gently to the west with the general gradient broken only by a very slightly elevated area of ground that is elevated about one foot above the surrounding area and by three very shallow depressions, all of which are less than 0.5 feet deep. Figure 4 contains photographs that show the conditions on the site on October 16, 2003. Figure 4A shows a view to the east along the south property line (marked by the fence) and Figure 4B shows the view to the northeast through the eastern half of the property from a point near the south property line near the middle of the site. The deepest pair of the three depressional wetlands is visible in the left middle ground and left background of photograph 4A. The flat character of the site and the weakly defined depressional microtopography associated with the two wetlands are confirmed by the fact that neither wetland is clearly visible. Although discing would obscure the vegetation, it would not eliminate a deep depression.

The site does not have any natural surface drainage features such as defined channels or swales, and the surface topography appears to be undisturbed. Therefore, while the development of the surrounding properties has changed the local overland flow processes, it has not modified any patterns of concentrated surface runoff.

The soils on the project site are mapped by the Soil Conservation Service (U.S. Soil Conservation Service 1992) as belonging to the Clear Lake series. The terrain in which the Clear Lake series is mapped is typically level, characterized by gentle surface gradients and little topographic variation. The soils possess clay surface and subsurface horizons and are generally characterized by low rates of infiltration and percolation and water can remain perched at or near the surface, with ponding occurring in depressional areas. Clear Lake clay series is considered a vernal pool soil by the Vernal Pool Task Force (CH2M Hill 1995).

The Soil Conservation Service (reorganized and renamed the National Resource Conservation Service) field office in Santa Rosa has developed a list of hydric soils that occur in Sonoma County. The Clear Lake clay series is listed or classified as a hydric soil.

1.2. Biological Conditions

The 2000 Burbank site is an annual grassland within which several abandoned orchard trees and a pair of small seasonal wetlands are distributed. A few scattered fruit trees indicate that the site may have at one time supported an orchard. Blackberry trails along the fences and forms thickets along the north and east property lines.

The annual grassland supports the complement of species found throughout the Santa Rosa Plain. Oats (Avena sativa, A. barbata), bronce grasses (Bromus hordeaceus, B. diandrus), and ryegrass (Lolium perenne) are the dominant species.

A map of the wetlands on the site is presented in Figure 5. The total area of seasonal wetland habitat
4A. View Looking East Along South Property Line

4B. View Looking Northeast Across Rear Half of Property

Applicant:
Mr. John Lowry
Burbank Housing Development Corporation
3432 Mendocino Avenue
Santa Rosa, CA 95403
707-526-9782

Project Site:
2000 Burbank Avenue
Santa Rosa, California

No Scale

Figure 4.
Photographs Showing the Conditions on the Property at 2000 Burbank Avenue
is approximately 2000 s.f. One of the wetland features functions as a very shallow vernal pool (shown in photograph 4A) that fits the profile for vernal pools on Clear Lake clay soils, displaying evidence of regular inundation and ponding to a depth of just slightly less than 0.5 ft. Based on observations made between 1995 and 1997, the vegetation is depauperate, lacking many of the species characteristic of vernal pools on the Santa Rosa Plain (listed in Table 3-1 of the Task Force’s Vernal Pool Ecosystem Preservation Plan). The dominant species include rabbitsfoot grass (Polypogon monspeliensis) and Douglas meadowfoam (Limnanthes douglasii), both of which are moderately indicative of inundated habitat; purple loosestrife (Lythrum hyssopifolium), a cosmopolitan species; perennial ryegrass, a species ubiquitous in non-inundated wetlands; and curly dock (Rumex crispus), a species well adapted to and commonly abundant on clay soils. The other seasonal wetlands are dominated by ryegrass and knotweed (Polygonum arenstrum).

The seasonal wetlands do not appear to be natural. Although size and shape are not determinant vernal pool attributes, the shapes of the wetlands suggest that they resulted from excavation.

2.0. CALIFORNIA TIGER SALAMANDER LIFE HISTORY AND BEHAVIOR

Elements of CTS life history and behavior that are pertinent to an assessment of the potential for CTS to be present on the lots and campuses and these sites’ actual value are discussed below.

2.1. Breeding

2.1.1. General behavior and requirements. The FWS (2003, based on Trenham 1998b, 2001) defines a CTS breeding site as the location where the salamanders are able to successfully breed in years of normal rainfall and complete their estivation. This definition indicates that a breeding site includes both a breeding pond and surrounding estivation habitat. The CTS is a long-lived animal as some individuals may survive for more than ten years and Trenham and his coworkers (Trenham et al. 2000) found that population turnover in CTS often occurs on a time scale of ten or more years. However, few newly metamorphosed larval CTS reach breeding age (Trenham 1998b, Trenham et al. 2000). Less than five percent of marked juveniles survived to become breeding adults and first-summer juvenile mortality exceeded 50 percent (Trenham et al. 2000). The FWS (2003) considers the lifetime reproductive success of the CTS to be low.

According to Petranka (1998, cited in USFWS 2003), the larval stage usually lasts three to six months, meaning that successful breeding ponds must contain standing water for a long duration during the winter and spring to allow full larval development of the newly hatched CTS larvae. Emigrating juvenile size was found to be positively related to the number of days a pond contains water (Trenham et al 2000). The longer the period of ponding, the larger the larvae and metamorphosed juveniles can grow, and the more fit they are to survive and reproduce (Peckmann et al. 1989, Semlitsch et al. 1988, Morey 1998, Trenham 1998b, as cited in USFWS 2003). Between 90 and 105 days of continuous inundation would be required at a minimum to permit larvae to undergo the full metamorphosis necessary to enable them to survive and continue the terrestrial phase of their lives.

2.1.2. Breeding requirements and site conditions. During the winter and spring of the 2002-03 rainy season, several visits were made to the site on multiple occasions to assess the hydrologic
conditions of the wetlands. The hydrographs (Figure 6) showing water levels in the two ponded areas confirm that neither of the two ponded areas visible in Figure 4 was ponded continuously for the period necessary to permit complete metamorphosis of CTS larvae. The water in each of the depressions infiltrated completely, drying at least once during the rainy season and the period of continuous inundation did not exceed 60 days (observations made on January 25, 2002) in either depression. The relatively low outlet and rapid infiltration reduced the maximum duration of ponding.

The site is not part of a known or possible breeding site (refer to section 1.3.2 and Figures 7 and 8). No breeding habitat is present on the site or in the open space land to the east. The absence of suitable breeding habitat indicates that the site can provide only suitable estivation habitat for CTS breeding at another location and migrating to the site from the breeding pond at that location.

2.2. Estivation

2.2.1. General behavior and requirements. According to Trenham (2001), CTS prefer open grassland and isolated oaks for estivation habitat and probably require active burrowing mammal activity (e.g., ground squirrels, gophers) to provide appropriate estivation habitat. The presence of suitable terrestrial estivation habitat is critical to the persistence of local CTS populations (Trenham 2001) and activities that eliminate burrowing mammals (e.g., rodent control through poisoning) or collapses their burrows (e.g., discing) decreases the suitability of the affected landscape for estivating CTS. Active gopher burrowing activity is probably needed to sustain CTS because inactive burrow systems become progressively unsuitable over time (U.S. Fish and Wildlife Service 2003). The location of the estivation sites relative to the breeding ponds depends on local topography and the vegetation, and distribution of burrowing mammal activity (Stebbins 1989, as cited in U.S. Fish and Wildlife Service 2003). The U.S. Fish and Wildlife Service (2003) believes that the lack of uplands for estivation during the dry season could be a limiting factor at three of the protected breeding sites.

2.2.2. Estivation requirements and site conditions. The site is basically a ruderal annual grassland habitat. No surveys were conducted to count estivation sites because the property had been disced for smoke control prior to the start of work. Although the site provides a type of habitat generally recognized as preferred CTS estivation habitat, CTS do not regularly estivate above ground and no basis exists for quantifying the actual suitability of the site and availability of fossorial estivation sites.

2.3. Migration

2.3.1. General behavior and requirements. Movement between the estivation areas and breeding pond(s) needs to be relatively free of barriers. Relatively minor habitat modifications, such as construction of roads, storm drains, and road curbs that traverse the area between breeding and estivation sites impede or prevent migration, and result in direct and indirect mortality of the CTS (Mader 1984, S. Sweet, in litt. 1993, 1998, Findlay and Houlan 1996, Launer and Fee 1996, Gibbs 1998, as cited in U.S. Fish and Wildlife Service 2003).

The distance between the estivation habitats and breeding pond(s) is also important to the survival of the CTS. The lack of suitable estivation habitat close to the breeding ponds puts at greater risk the recently metamorphosed larval CTS. According to Dr. Mark Jennings, recently emerged juvenile
CTS Potential Breeding Pond Assessment
2002-03 Hydrographs

Seasonal Wetland 1
Seasonal Wetland 2

Depth of Standing Water (ft.)
0 0.1 0.2 0.3 0.4 0.5
11/20 12/7 12/19 1/14 2/5 02/27 03/21 04/12
Date (Month/day)

Figure 6.
Hydrographs Showing Depth and Duration of Standing Water in 2002-03 in Two Seasonal Wetlands at 2000 Burbank Avenue

Applicant:
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Burbank Housing Development Corporation
3432 Mendocino Avenue
Santa Rosa, CA 95403
707-526-9782

Project Site:
2000 Burbank Avenue
Santa Rosa, California

No Scale
Figure 8. California Tiger Salamander Observations in the vicinity of 2000 Burbank Avenue. Map includes Observations on Roads and in Breeding Ponds (Cook and Norten 2000) and Captures in 2002-03 FWS-Protocol Adult-juvenile and Larval CTS Surveys

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Santa Rosa, California

Nominal Scale
1:100,000
CTS have not fully metamorphosed and require time to complete their transition to life in terrestrial habitat (M. Jennings, personal communication, April 8, 2003). The greater the distance they have to travel, the greater the likelihood that they will die as a result of predation or other causes resulting from the lack of appropriate estivation habitat within proximity of the breeding pond. The same can be said of breeding adults moving to and from the breeding pond; the greater the distance the individual has to travel, the greater the risk to that individual.

Trenham et al. (2001) echoes the concern of the U.S. Fish and Wildlife Service (2003) about the threats to the Sonoma County CTS population in that they feel that the greatest threat to the CTS is generally considered to be human habitat modification resulting in loss of breeding ponds and fragmentation of the remaining occupied ponds. According to the U.S. Fish and Wildlife Service (2003) and the references cited therein, the loss of migrating CTS from automobile traffic can be substantial, ranging from 25 to 72 percent of the breeding population for different populations of the species (Twitty 1941, S. Sweet, in litt. 1993, Launer and Fee 1996, as cited in U.S. Fish and Wildlife Service 2003). In fact, the FWS believes that road construction can reduce or completely eliminate the viability of a breeding site, and, in some cases larger portions of a metapopulation.

Little data exist about CTS movements between the breeding and estivation habitat, i.e., what pathways are followed, what difficulties obstacles pose to movement, how far from straight-line migratory routes CTS can be diverted, and at what point barriers or obstacles are so numerous that they become collectively impassable. Structures, walls and other solid structures increase the distance a salamander must travel, with a resulting increase in exposure to predators, dehydration, and mortality. As the number of barriers increases, the probability that they completely preclude CTS migration between suitable estivation or breeding habitat also increases. Roadside curbs, lateral or median-strip k-rails, etc. impose physical barriers to migration, but the roadways themselves increase the risk of mortality. The greater the number of roads and the greater the traffic volumes on roadways within a migration corridor, the greater the risk to migrating CTS.

The distance CTS initially traveled after leaving the breeding pond averaged 60 m for males and 44 m for females according to the study reported in Trenham (2001). The maximum observed distance moved from the point of release ranged from 16 m to 248 m. with the average final distance being 114 ± 83 m. Trenham et al. (2001) estimated the upper bound of a 95 percent confidence interval for adult CTS emigration distance in their study to be 173 m. Therefore, although juvenile CTS have been observed to migrate up to 1.6 km (1 mi) from breeding ponds to estivation areas (Austin and Shaffer 1992, as cited in USFWS 2003) and adult CTS may migrate up to 2 km (1 mi) from estivation sites to the breeding pond (Sweet 1998, as cited in USFWS 2003), these distances represent extremes. In a study by Trenham, the maximum observed distance a CTS released at the margin of a breeding pond moved (from the point of release) ranged from 16 m to 248 m; the average total distance moved was estimated at 114 m ± 83 m. Trenham et al. (2001) estimated the upper bound of a 95 percent confidence interval for adult CTS emigration distance in their study to be 173 m. Juvenile CTS have been observed to migrate up to 1.6 km (1 mi) from breeding ponds to estivation areas (Austin and Shaffer 1992, as cited in U.S. Fish and Wildlife Service 2003).

CTS are believed to move in a straight-line path between breeding ponds and estivation sites. Movement between the estivation areas and breeding pond(s) needs to be relatively free of barriers. Relatively minor habitat modifications, such as construction of roads, storm drains, and road curbs that traverse the area between breeding and estivation sites, increasingly fragment habitat, impede
or prevent migration, and cause direct and indirect CTS mortality (Mader 1984, S. Sweet, in litt. 1993, 1998, Findlay and Houlan 1996, Launer and Fee 1996, Gibbs 1998, as cited in USFWS 2003). Curbs and berms as low as 9 to 13 cm (3 to 5 in), which allow salamanders to climb onto the road but can restrict or prevent their movements off the roads, can turn the roads into sources of high mortality (Launer and Fee 1996, S. Sweet, in litt. 1998, cited in USFWS 2003). According to the USFWS (2003) and the references cited therein, the loss of migrating CTS from automobile traffic can be substantial, ranging from 25 to 72 percent of the breeding population for different populations of the species (Twitty 1941, S. Sweet, in litt. 1993, Launer and Fee 1996, as cited in USFWS 2003). In fact, the USFWS (2003) believes that road construction can reduce or completely eliminate the viability of a breeding site, and, in some cases larger portions of a metapopulation.

Distance between the estivation habitats and breeding pond(s) is also important to the survival of the CTS. The lack of suitable estivation habitat close to the breeding ponds puts at greater risk the recently metamorphosed larval CTS. According to Dr. Mark Jennings, the recently metamorphosed individuals are not quite fully developed and require time to complete their metamorphosis to adults (M. Jennings, personal communication, April 8, 2003). Therefore, the greater the distance they have to travel, the greater the likelihood that they will suffer mortality due to predation or other causes resulting from the lack of appropriate estivation habitat within proximity of the breeding pond. The same can be said of breeding adults moving to and from the breeding pond; the greater the distance the individual must travel, the greater the risk to that individual.

2.3.2. Migration requirement and site and surrounding conditions. Together, Figures 7 and 8 show the nearest locations at which CTS have been observed. At the Friedman site and in Southwest Community Park, CTS were observed in both aquatic and upland habitat. At the other sites, CTS were observed in upland habitat, apparently during migration in December of 2002. The observation provided by Mr. Harvey Rich is based on the data employed by TRI Development Corporation in its negotiations with the FWS regarding the Stony Ranch project. The observation was represented as being made in a small triangular parcel between Stony Point Road, Old Stony Point Road, and Hearn Avenue but because there appears to be no breeding habitat in that triangular parcel, the CTS observed is likely to have been a migrating individual.

The straight-line distances and barriers between the 2000 Burbank Avenue site and several of these locations are considerable but the observations in the "Stony Point Triangle," a small, triangular piece of undeveloped land between Stony Point Road, Old Stony Point Road, and Hearn Avenue (visible in the lower left center of Figure 7 and in part in Figure 10); and at Southwest Community Park were made relatively close to 2000 Burbank Avenue. However, the barriers to migration between the site and Southwest Community Park and the Stony Point Triangle are considerable and the distances between the two locations and the 2000 Burbank Avenue site are 1,862 and 1,882 ft., respectively. Although these distances are within the migratory limits for CTS migration, the barriers are substantial and the actual pathways would be longer.

Figures 9 - 12 show barriers of the type that occur between the site at 2000 Burbank Avenue and the locations at which the CTS were observed or are known to occur in Southwest Community Park and the Stony Point Road Triangle. The 2000 Burbank site is separated from Southwest Community Park breeding pond by Hearn Avenue with its curbs, gutters, and drop inlets (Figure 9). Hearn Avenue is also a heavily traveled arterial (carrying traffic to and from U. S. Highway 101 on- and off-ramps). Figure 10 shows the traffic on Stony Point Road in the middle of a weekday afternoon.
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Figure 9.
Curb and Gutter Along North Side of Herrn Avenue
and Drop Inlet Structure at the Herrn Avenue-
Burbank Avenue Intersection.
View East-northeast along Herrn Avenue from
Intersection.
Figure 11.
Wooden Fence Barriers at Location 1 in Figure 7. Base Board in Upper Photo is Low and Potentially Passable by Migrating CTS. Buried Plastic Curbs and Solid Base Board in Lower Photo Effectively Block CTS Migration.
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Figure 12.
Upper Photo: Migration Beneath Wooden Fence (Location 2, Figure 7) Partially Blocked by Piled Soil and Concrete Chunks. Lower Photo: Stone Wall on East Side of Burbank Avenue (Location 3, Figure 7) Forms Short but Impassible Barrier To CTS Migration
as well as the barriers between the Stony Point Triangle and the property at 2000 Burbank Avenue.

Other barriers typical of the rural residential area surrounding 2000 Burbank Avenue are shown in Figures 11 and 12. Wood fences are commonplace along property boundaries and at interior locations within lots. Most wood fences are constructed with the vertical boards supported above the ground to minimize rot and fence deterioration. Many are not, however, as the photos in Figure 11 illustrate. The fence in the upper photograph in Figure 11 can be crossed without difficulty by migrating CTS but the combination of the partially buried plastic curb and the horizontal base board constructed at the same location and shown in the lower photograph is an effective barrier to migration. The long fence shown in the upper photograph in Figure 12 and at Location 2 in Figure 7 borders the vacant lot northeast of the Hearn Avenue-Burbank Avenue intersection. This fence, which is perpendicular to any CTS migration pathways between 2000 Burbank Avenue and Southwest Community Park, was constructed with the standard raised base but soil and concrete have been piled against the base of the fence. Migration corridors are partially blocked.

3.0. CONCLUSION

Estivation sites are available on the property at 2000 Burbank Avenue, but breeding habitat is not. The heavily traveled roads; the curbs, gutters, and drop inlets along Hearn Avenue; residential structures; and many smaller barriers collectively pose significant barriers to CTS migration between the property and any breeding ponds in the area. Potentially usable on-site estivation habitat has long been isolated from breeding ponds in the area. The surrounding rural residential and urbanizing area has been developed for more than 20 years, twice the length of the expected life span of CTS in natural habitats. A strong reasonable case exists that the property should no longer be considered occupied CTS habitat and that development of the property would not cause CTS mortality CTS or eliminate occupied habitat. Therefore, Burbank Housing Development Corporation requests that the FWS determine that development of the property would have no effect on the Sonoma California tiger salamander.

Upon your review of this request, please advise me of your decision. If you deny the request, please provide in written form the explanation, including the supporting facts, as to why the request has been denied. Thank you for your prompt attention to this matter. Please feel free to call with questions.

Sincerely,

Laurence P. Stromberg, Ph.D.
Wetlands Consultant

cc: John Lowry, Burbank Housing Development Corporation
4.0. LITERATURE CITED


Thomas R. Jones, School of Natural Resources and Environment, University of Michigan, Letter. 27 January 1993.


Sam Sweet, University of California, Santa Barbara, 31 August 1998. Vineyard development posing an imminent threat to Ambystoma californiense. Letter.
APPENDIX B

USFWS RESPONSE TO NO EFFECT REQUEST LETTER
Dr. Laurence P. Stromberg, Ph.D.
59 Jewell Street
San Rafael, California 94901

Subject: Request for a “No Effect” Determination, 2000 Burbank Site, Santa Rosa, California

Dear Dr. Stromberg:

This letter is in response to your letter dated October 30, 2003, requesting the U.S. Fish and Wildlife Service (Service) concur with your determination that development of the 6.8 acre site at 2000 Burbank Avenue in Santa Rosa, California would have “no effect” on the endangered Sonoma County Distinct Population Segment of the California tiger salamander (Ambystoma californiense) (tiger salamander) or its habitat. This response is provided in accordance with the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.) (Act).

It is our conclusion that development of these lots is likely to result in take of tiger salamanders by potentially killing individuals and by destroying upland aestivation and dispersal habitat. We base this determination on the following:

1) To our knowledge, no surveys have been conducted on the project site to determine whether tiger salamanders use the site as aestivation or dispersal habitat.

2) The project site is located approximately 1.2 km (0.73 mi) and 0.79 km (0.49 mi) north to northeast of two known breeding sites, one at the corner of Heam Avenue and Old Stony Point Road (CNDDB #653) and the other at Southwest Community Park (Cook and Northern #9). This distance is within the dispersal range of tiger salamanders. Much of the area between the breeding pool and project site remains in a fairly undeveloped state.

3) While the project site has been disturbed in the past, the site is still in a condition that could support activity by burrowing rodents, providing aestivation habitat for tiger salamanders.
4) Though buildings, parking lots, and streets occur between these two areas and could impede movement, they do not present a barrier to tiger salamanders movement between the sites.

Section 9 of the Act and its implementing regulations prohibit the “take” of federally listed fish and wildlife species. Take is defined by the Act as “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect” any listed wildlife species. “Harm” in this definition includes significant habitat modification or degradation where it actually kills or injures wildlife, by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering (50 CFR § 17.3). “Harass” means an intentional or negligent act or omission which creates the likelihood of injury to wildlife by annoying it to such an extent as to disrupt normal behavioral patterns which include, but are not limited to breeding, feeding, or sheltering.

We recommend that permitted biologists survey the project site to determine if tiger salamanders occur on the site. The Service has developed survey guidance that we believe reliably determines the presence of tiger salamanders on a project site. The most recent survey guidance can be obtained by contacting this office. In addition, we recommend that no disking of the property take place until surveys and any necessary consultation is completed to avoid take of tiger salamanders. In lieu of conducting surveys, you may choose to pursue incidental take exemption immediately because there is a reasonable likelihood the project will result in take of tiger salamanders for the reasons described above.

Take incidental to an otherwise lawful activity may be authorized by one of two procedures. If a Federal agency is involved with the permitting, funding, or carrying out of this project, and a listed species is going to be adversely affected, then initiation of consultation between that agency and the Service pursuant to section 7 of the Act is required. Such consultation would result in a biological opinion addressing anticipated effects of the project to the listed species and may exempt a limited level of incidental take from section 9 of the Act. If the project may result in the take of listed species and no Federal agency is involved, then an “incidental take” permit pursuant to section 10(a)(1)(B) of the Act should be obtained. The Service may issue such a permit upon completion by the permit applicant of a satisfactory conservation plan for the listed species that would be affected by the project.

Please contact Mary Hammer or Dan Buford of my staff at the letterhead address or at (916) 414-6625, if you have any questions.

Sincerely,

\[\text{Cay C. Goude}\]

Cay C. Goude
Acting Field Supervisor

cc:
Burbank Housing Development Corporation, Santa Rosa, CA (John Lowry)
City of Santa Rosa, Santa Rosa, CA
APPENDIX C

BURBANK HOUSING - RARE PLANT SURVEY REPORT
July 2, 2002

Mr. John Lowry
Burbank Housing Development Corporation
3432-A Mendocino Avenue
Santa Rosa, CA 95403

SUBJECT: SPECIAL-STATUS PLANT SURVEY REPORT AND CURRENT STATUS OF ISOLATION DETERMINATION, 2000 BURBANK AVENUE, SANTA ROSA

Corps file no: 22495N

Dear John:

Here is a copy of the report of findings for the special-status plant I conducted this last spring. As you can see from the conclusion, the results of the survey were negative. The two-year survey requirement has, therefore, been satisfied, with negative findings in both years (1997 was the other year), meaning that the mitigation for impacts on endangered plant species habitat will be 1:1 rather than 2:1. Every project on the Santa Rosa Plain must mitigate for impacts on endangered plant species habitat unless no suitable habitat is present; although no plants are present, the habitat is suitable.

I have corresponded with the Corps of Engineers (John Knudsen, Dan Martel) via email regarding the decision regarding isolation subsequent to our field visit but I have yet to receive a response. I will contact you as soon as I receive that response and, in the interim, intend to remind them regularly that the matter is very easy to resolve and that the decision should be made to consider them isolated.

If you have any questions about the report, please call. Thank you.

Sincerely,

Laurence P. Stromberg, Ph.D.
Wetlands Consultant

attach: 2002 special-status plant species survey report (one copy)
SECOND-YEAR (2002) SPECIAL-STATUS PLANT SURVEY,
2000 BURBANK AVENUE (A. P. NOS. 125-421-018 and -019),
SANTA ROSA, CALIFORNIA

Submitted to:

Mr. John Lowry
Burbank Housing Development Corporation
3432-A Mendocino Avenue
Santa Rosa, CA 95403

Prepared by:

Laurence P. Stromberg, Ph.D.
Wetlands Consultant
59 Jewell Street
San Rafael, CA 94901
(415) 721-0700

June 24, 2002
SECOND-YEAR (2002) SPECIAL-STATUS PLANT SURVEY,
2000 BURBANK AVENUE (A. P. NOS. 125-421-018 and -019),
SANTA ROSA, CALIFORNIA

1.0. INTRODUCTION

1.1. PROJECT SITE LOCATION AND DESCRIPTION

1.1.1. Project Site Location

The project site comprises two parcels (A. P. Nos. 125-421-018 and -019) with a combined area of approximately 6.8 acres located in southwest Santa Rosa (Figure 1), on Burbank Avenue between Sebastopol Road and Hearn Avenue (Figure 2). The site is in the portion of the Santa Rosa Plain over which the Corps of Engineers has conditioned the issuance of Nationwide Permit 26, for the discharge of fill into wetlands that are isolated and/or above the headwaters. The site is also within the area that would be covered by the general permit for which the City of Santa Rosa submitted an application to the Corps of Engineers.

1.1.2. Project Site Description

The site is abandoned pasture land. Some farm outbuildings occur along the northern property line. An oval ring on the aerial photograph suggests that the site appears to have been most recently used to ride horses. A few scattered fruit trees indicate that the site may have at one time supported an orchard. Himalaya blackberry forms thickets along the north and east property lines.

1.2. PHYSICAL AND HYDROLOGIC CONDITIONS

1.2.1. Topography and Drainage

The site is relatively level. The total difference in elevation appears to be less than one foot, expressed over the whole site in the very gentle slope to the west and locally in a small number of shallow depressions.

The site does not have any natural surface drainage features such as defined channels or swales, and the surface topography appears to be undisturbed. Therefore, while the development of the surrounding properties has changed the local overland flow processes, it has not modified any patterns of concentrated surface runoff.

There is a roadside drainage ditch on the east side of Burbank Avenue (off-site). No defined or undefined drainages or ditches occur on the site or on adjacent properties and none of the wetlands has a surface hydrologic connection with the roadside ditch along Burbank Avenue. Consequently,
FIGURE 1

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Site:
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Santa Rosa, California

Nominal Scale
1:140,000

Regional Location Map
Applicant:
Mr. John Lowry
Burbank Housing Development Corporation
3432-A Mendocino Avenue
Santa Rosa, CA 95403
(707) 526-9782

Site:
2000 Burbank Avenue
Santa Rosa, California

Nominal Scale
1:24,000

Project Site Location

FIGURE 2
no surface water connection exists between the wetlands and any off-site tributary that reaches or carries water to a navigable water. Because the wetlands (described in the following section) occur in depressions, the hydraulic gradients in the immediately surrounding microwatersheds are toward rather than through or away from the wetlands. Water would not flow through the vadose zone (near-surface soils above the water-restricting horizon) from any of the wetlands toward the ditch along Burbank Avenue. Weekly observations made during the 2001-02 winter rainy season to assess the suitability of the wetlands as breeding habitat for the California tiger salamander revealed that ponding was less than 0.5 ft. and that, at no time, did water appear to flow off-site from any of the wetlands. Water would have to pond to a depth of more than 1.4 feet before it could flow west toward the drainage ditch on the east side of Burbank Avenue and that depth was not even reached in the heavy December rains.

1.2.2. Soils

The soils on the project site are mapped by the Soil Conservation Service (U. S. Soil Conservation Service 1992) as belonging to the Clear Lake series. The terrain in which the Clear Lake series is mapped is typically level, characterized by gentle surface gradients and little topographic variation. The soils possess clay surface and subsurface horizons and are generally characterized by low rates of infiltration and percolation and water can remain perched at or near the surface, with ponding occurring in depressional areas. Clear Lake clay series is considered a vernal pool soil by the Vernal Pool Task Force (CH2M Hill 1996).

The Soil Conservation Service (renamed the National Resource Conservation Service) field office in Santa Rosa has developed a list of hydric soils that occur in Sonoma County. The Clear Lake clay series is listed or classified as a hydric soil.

1.3. SEASONAL WETLANDS

The FAC-neutral test was used to delineate the wetlands at the parcel at 2000 Burbank Avenue. The FAC-neutral test is one in which FAC species with an equal likelihood of occurring in wetlands and uplands are considered neutral in deciding whether the vegetation at a site is hydrophytic. FAC species are ignored and the decision is made on the other species present (Environmental Laboratory 1987). The test is useful when the delineator questions the indicator status of particular plant species or where the outcome of a delineation rests on decisions about the vegetation in an area where the site occurs in what is not an obvious wetland. The Corps manual provides guidance that the Corps must be confident that the area is a wetland to take jurisdiction when the vegetation is dominated by FAC species.

The wetland features on the site include one vernal pool and other seasonal wetlands (Figure 3). The total area is approximately 1,059 sf or 0.045 acres, 840 sf (0.019 ac) of which are vernal pool habitat and 219 sf (0.005 ac) of which are other seasonal wetlands. The vernal pool fits the profile for vernal pools in Clear Lake clay soils, displaying evidence of regular inundation and potential ponding to a depth exceeding 0.5 ft. Based on dead plant material from the 1995-96 growing season and seedlings and young plants that initiated growth in the 1996-97 growing season, the vegetation is depauperate, containing very few of the species characteristic of vernal pools on the Santa Rosa
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Site:
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Santa Rosa, California

Nominal (Approximate) Scale:
1:1,200

FIGURE 3
Distribution of Vernal Pools and Seasonal wetlands and Locations of sample sites Used in the Wetland Delineation
Plain (listed in Table 3-1 of the Vernal Pool Ecosystem Preservation Plan). The dominant species appear to include ryegrass, curly dock, and bristly ox tongue.

The seasonal wetlands do not appear to be of natural origin. Although minimal size is not a conclusive determinant for vernal pools, the other depressional areas appear to have resulted from excavation because of their shape. Regardless of the origin, the wetlands in the other depressions support the same plant species and are compositionally similar to the vernal pool.

1.4. UPLAND HABITAT

The upland habitat on the property is primarily a ruderal annual grassland. At one time in the past, however, the site supported an orchard but most of the trees have been removed or have died. Still, some walnuts and plums remain and several valley oaks (Quercus lobata) are present in the eastern half of the property and a single coast live oak is present (Quercus agrifolia). The oaks are immature and many are multi-stemmed (divided below breast height). They range in diameter from an inch to 18 inches with most having diameters between two and 10 inches. Himalaya blackberry (Rubus discolor) patches and stands of coyote bush (Baccharis pilularis var. consanguinea) are also scattered across the site.

The annual grassland is dominated by the species listed in Table 1. These species include FAC wetland species such as Mediterranean barley (Hordeum marinum var. gussoneanum), ryegrass (Lolium perenne), and bristly ox tongue (Picris echioides). The indicator status of the Mediterranean barley is reasonably accepted but ryegrass occurs on upland sites in areas that are not typically investigated by Corps personnel because they do not support wetlands of any kind. Dan Martel of the Corps agrees that ryegrass occurs on heavy clay soils that are not necessarily hydric (Martel personal communication). Bristly ox tongue also tends to occur on upland sites that have been disturbed and displays a tendency to become established in soils where the moisture content whether or not they are hydric. The disturbance can result from any of a number of activities, including discing, scraping of surface vegetation, etc. In Windsor, the Corps recently verified a wetland delineation on a site where bristly ox tongue is one of the dominant species on mixed imported fill that is developing upland characteristics, omitting many virtually all of the areas dominated by the ox tongue.

The subdominant species that occur in the annual grassland include ripgut brome (Bromus diandrus), soft chess (Bromus hordaceus), hedge bindweed (Convolvulus arvensis), teasel (Dipsacus sylvestris), cutleaf geranium (Geranium dissectum), Harding grass (Phalaris aquatica), curly dock (Rumex crispus), and vetch (Vicia cracca). Harding grass is a species that is well-adapted to disturbance and that is increasing not only on the project site but in all but the wettest sites on the Santa Rosa Plain. The grassland appears to have changed little since the previous special-status plant survey was conducted in 1997. The primary difference is the increased cover and abundance of Harding grass.
Table 1. Dominant Plant Species Observed in Annual Grassland and Seasonal Wetland Habitats on the Burbank Avenue Site

<table>
<thead>
<tr>
<th>Species</th>
<th>Indicator Status</th>
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<tbody>
<tr>
<td>Avena fatua</td>
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</tr>
<tr>
<td>Baccharis pilularis spp. consanguinea</td>
<td>UPL</td>
</tr>
<tr>
<td>Bromus diandrus</td>
<td>UPL</td>
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<td>Dipsacus sylvestris</td>
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<tr>
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<td>UPL</td>
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<tr>
<td>Geranium dissectum</td>
<td>UPL</td>
</tr>
<tr>
<td>Hordeum marinum ssp gussoneanum</td>
<td>FAC</td>
</tr>
<tr>
<td>Juncus phaeocephalus</td>
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<td>Lolium perenne</td>
<td>FAC</td>
</tr>
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<td>Phalaris aquatica (P. tuberosa)</td>
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</tr>
<tr>
<td>Picris echioides</td>
<td>FAC</td>
</tr>
<tr>
<td>Plantago lanceolata</td>
<td>NL</td>
</tr>
<tr>
<td>Quercus lobata</td>
<td>FAC</td>
</tr>
<tr>
<td>Ranunculus californicus</td>
<td>FAC</td>
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<td>Rubus discolor</td>
<td>FAC</td>
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<td>Rumex crispus</td>
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<td>Rumex pulcher</td>
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<td>FACU+</td>
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<td>Vicia cracca</td>
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</table>
2.0. METHODS

Target special-status species were identified by request for a search of records at the California Natural Diversity Data Base. Information on distributional and habitat requirements of the upland species was obtained from flora (Mason 1975, Munz and Keck 1968), other reports and surveys conducted for special-status species on the Santa Rosa Plain, surveys conducted on properties in the vicinity of the study area, and the California Native Plant Society’s list of rare and endangered plant species in the state (Skinner and Pavlik 1994). A Rarefind Data Base Search from the California Natural Diversity Data Base was also used as support documentation for the identification of target species and known sites for special-status species. The search, dated March 8, 2001, was conducted for multiple projects on the Santa Rosa Plain and covered the Santa Rosa, Cotati, Healdsburg, Two Rock, and Sebastopol 7.5-minute topographic quadrangles. The expiration date for the search is January 8, 2002.

The species that have the potential to occur in the region surrounding the site are listed in the table in Appendix A. The three primary species for which the survey was conducted are Sebastopol meadowfoam (*Limnanthes vinculans*), Sonoma sunshine (*Blemnosperma bakeri*), and Burke’s goldfields (*Lasthenia burkei*). Several species are listed in the table in Appendix A but many other special-status species that occur in the region are limited to habitats which do not occur on the project site and were omitted from the list. Some species that occur most frequently in chaparral and/or oak woodland were excluded because such habitats are not present.

The field survey was conducted by thoroughly searching the site. The survey was conducted with field visits on March 18, April 8, and April 25, 2002, all appropriate times during the growing season for the identification of upland and wetland species with the potential to occur on the site. The site visit took place when most of the target species were in flower and/or fruit and the remainder (the later-blooming species) were identifiable to genus. The site was surveyed by searching each of the small wetlands thoroughly and walking parallel transects at a 25-foot interval through the rest of the site, making a list of all species that could be identified on sight, and collecting all materials that were not identifiable on sight for examination under a microscope in the office. The spacing was appropriate because the low-growing vegetation did not interfere with the line of sight. All species were identified to a taxonomic level, either species or genus, which permitted an accurate decision regarding its status. The methods used were consistent with those required by the California Department of Fish and Game.
3.0. RESULTS

3.1. POTENTIAL HABITAT FOR SPECIAL-STATUS PLANT SPECIES

The presence of "potential habitat" for the federally listed plant species on the Santa Rosa Plain is one of the elements in the habitat evaluation process. Potential habitat is defined by the combination of vegetation, topographic, and hydrologic conditions.

3.1.1. Vegetation Conditions

Potential habitat for the plant species listed as federally endangered is characterized as:

1. areas supporting vernal pool indicator species, i.e., those plant species listed in Table 3-1 of the Vernal Pool Ecosystem Preservation Plan (CH2M Hill 1996), with a 10 percent relative cover, or

2. areas not dominated by weedy grasses, i.e., areas in which perennial plant species not listed in Table 3-1 and/or exotic grasses such as Hordeum maritinum ssp. gussoneanum, Lolium perenne, Bromus hordaceus, etc. contribute less than 90 percent of the relative vegetation cover.

These criteria are not to be applied to the entire wetland area, since only a small portion may be suitable habitat. If any square meter area meets the above criteria (such as in the deepest portions of shallow ponds or in deeper parts of swales), this area and the entire wetland would be considered suitable habitat.

3.1.2. Topographic and Hydrologic Conditions

One or more of the following topographic or hydrologic conditions must exist in conjunction with the vegetation criteria for a wetland to be considered potential habitat:

1. the wetland area has not been entirely filled such that the wetland no longer floods or ponds (i.e., as a result of leveling) and the original topography no longer exists;

2. the wetland has an outlet barrier (is a pool) or occurs in depressional terrain (i.e., is a swale or drainage feature);

3. the wetland contains surface (standing or flowing) water during the rainy season in a normal rainfall year for seven days or more;

The following conditions indicate that a particular wetland is not potential habitat. The site does not meet the vegetation criteria and:

4. the wetland occurs on sloping ground (not the slopes of a swale or pond) and is not a swale
or swale-related drainage feature, such that no ponding or flooding occurs;

5. **the wetland is irrigated, and contains standing water of natural or artificial origin, and the soils are saturated for more than 60 days between June 1 and October 1.**

No potential habitat for the listed plant species occurs in the shallow depressional areas in the study area. Plant species listed in Table 3-1 of the Vernal Pool Ecosystem Preservation Plan contribute at least 10 percent relative cover in the large seasonal wetland in the southwestern part of the site.

### 3.2. SURVEY RESULTS

No potential habitat for any of the three federally listed plant species is present on the study area and none of the federally listed plant species listed in the table in Appendix A were observed on the project site during the visits conducted as part of the second-year survey. The site was surveyed in both 1997 (survey dates: March 18, March 31, and April 16, 1997; Stromberg 1997), and 2002 and the findings were negative in both years.

All plant species observed in both 1997 and 2002 during the survey of the property are listed in Appendix B.
4.0. REFERENCES


California Natural Diversity Data Base. 1994, 1995, 1996. Printed Data Reports of Data Base Searches (for other sites on the Santa Rosa Plain). California Department of Fish and Game, Natural Heritage Section.


### APPENDIX A.
Special-status Plant Species
with the Potential to Occur on the 2000 Burbank Avenue Site

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name</th>
<th>Status</th>
<th>Habitat Affinities</th>
<th>Blooming Period</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Aloepecurus aequalis</em></td>
<td>USFWS: C2</td>
<td>Marshes, swamps, and scrub.</td>
<td>Feb-Apr</td>
<td>No suitable habitat occurs on the site. Species not found.</td>
<td></td>
</tr>
<tr>
<td>var. <em>sonomensis</em></td>
<td>CDFG: -</td>
<td>CNPS: 1A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sonoma <em>alopecurus</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Amsinkia lunaris</em></td>
<td>USFWS: -</td>
<td>Annual grassland.</td>
<td>Mar-Jun</td>
<td>Annual grassland is suitable habitat. Not found.</td>
<td></td>
</tr>
<tr>
<td>Bent-flowed fiddleneck</td>
<td>CDFG: -</td>
<td>CNPS: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Astragalus breweri</em></td>
<td>USFWS: -</td>
<td>Annual grassland, chaparral and woodland. Occurs on serpentine soils occasionally.</td>
<td>Apr-May</td>
<td>The annual grassland is suitable habitat. Not found.</td>
<td></td>
</tr>
<tr>
<td>Bent-flowed fiddleneck</td>
<td>CDFG: -</td>
<td>CNPS: 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Blechnopisma bakeri</em></td>
<td>USFWS: E</td>
<td>Vernal pools and vernal swales.</td>
<td>Mar-Apr</td>
<td>Marginally suitable habitat is present on the site but the species was not found.</td>
<td></td>
</tr>
<tr>
<td>Baker's <em>blechnopisma</em></td>
<td>CDFG: E</td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Cascuta howelliana</em></td>
<td>USFWS: -</td>
<td>Vernal pools.</td>
<td>Mar-Apr</td>
<td>Parasitic species found on many vernal pool species, particularly <em>Eryngium</em>. Not found.</td>
<td></td>
</tr>
<tr>
<td><em>Bogg's Lake dodder</em></td>
<td>CDFG: -</td>
<td>CNPS: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Downingia humilis</em></td>
<td>USFWS: -</td>
<td>Vernal pools.</td>
<td>Mar-Apr</td>
<td>The deeper seasonal wetlands provide suitable habitat but the species was not found.</td>
<td></td>
</tr>
<tr>
<td>Dwarf <em>downingia</em></td>
<td>CDFG: -</td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Fritillaria liliaecea</em></td>
<td>USFWS: C2</td>
<td>Coastal scrub, valley grassland Feb-Apr near the coast on heavy ultramafic clay soils.</td>
<td>Mar-Jun</td>
<td>Habitat generally not suitable on the site. Not found.</td>
<td></td>
</tr>
<tr>
<td>Fragrant <em>fritillary</em></td>
<td>CDFG: -</td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Fritillaria purdyi</em></td>
<td>USFWS: -</td>
<td>Chuparrel and valley grassland. Dry sites, generally on serpentine soils.</td>
<td>Apr-Jun</td>
<td>Habitat not suitable for the species. Not found.</td>
<td></td>
</tr>
<tr>
<td>Purdy's <em>fritillary</em></td>
<td>CDFG: -</td>
<td>CNPS: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Lasthenia burkei</em></td>
<td>USFWS: E</td>
<td>Vernal pools and swales.</td>
<td>Apr-Jun</td>
<td>Suitable habitat is present on the site. Not found.</td>
<td></td>
</tr>
<tr>
<td>Burke's <em>goldfields</em></td>
<td>CDFG: E</td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Limnanthes vinculans</em></td>
<td>USFWS: E</td>
<td>Vernal pools and swales.</td>
<td>Apr-Jun</td>
<td>Suitable habitat is present but the species was not found.</td>
<td></td>
</tr>
<tr>
<td>Sebastopol <em>meadowfoam</em></td>
<td>CDFG: E</td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Navarretia pleiantha</em></td>
<td>USFWS: C1</td>
<td>Vernal pools and swales.</td>
<td>May-Jun</td>
<td>Suitable habitat is present on the site but species was not found.</td>
<td></td>
</tr>
<tr>
<td>Many-flowed <em>gilia</em></td>
<td>CDFG: E</td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Perideridia gairdneri</em></td>
<td>USFWS: C2</td>
<td>Vernal pools, seasonal wetland habitats.</td>
<td>Jun-Jul</td>
<td>The wetland habitat on the site provides suitable habitat. Species not found.</td>
<td></td>
</tr>
<tr>
<td>ssp. <em>gairdneri</em></td>
<td>CDFG: -</td>
<td>CNPS: 1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gairdner's <em>yampah</em></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX A (Cont’d.).
Special-status Plant Species
with the Potential to Occur on the 2000 Burbank Avenue Site

<table>
<thead>
<tr>
<th>Scientific name</th>
<th>Common name</th>
<th>Status</th>
<th>Habitat Affinities</th>
<th>Blooming Period</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Pogonyle dougladissii</em></td>
<td>ssp. parvisflora</td>
<td>USFWS: C3c</td>
<td>Vernal pools, seasonal wetland habitats, including swales.</td>
<td>May-Jul</td>
<td>Suitable habitat is present. Not found.</td>
</tr>
<tr>
<td>Small-flowered mesamint</td>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CNPS: 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Ranunculus lobbia</em></td>
<td>Lobb’s buttercup</td>
<td>USFWS: -</td>
<td>Vernal pools and swales.</td>
<td>Feb-Apr</td>
<td>Suitable habitat is present in the seasonal wetlands. The species was not found.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CNPS: 4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Trifolium amoenum</em></td>
<td>Showy indian clover</td>
<td>USFWS: C2*</td>
<td>Annual grassland.</td>
<td>Apr-Jun</td>
<td>The annual grasslands on the site provide suitable habitat. Not found.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CDFG: -</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>CNPS: 1A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:

Agencies - USFWS = U.S. Fish and Wildlife Service, CDFG = California Department of Fish and Game, CNPS = California Native Plant Society.

Federal Designations

E = Listed as Endangered by the Federal Government. T = Listed as Threatened by the Federal Government. C1 = Category 1 Candidate. C1* = Sufficient data are on file to support listing but taxon presumed extinct. C2 = Category 2 Candidate. C2* = Sufficient data to support federal listing lacking, taxon presumed extinct.

State Designations

E = Listed as Endangered. R = Listed as Rare.

CNPS Designations

List 1A = Species presumed extinct in California. List 1B = Species rare and endangered in California and elsewhere. List 2 = Species rare and endangered in California but more common elsewhere. List 3 = Species about which additional data are needed. List 4 = Species of limited distribution.
APPENDIX B.
Plant Species Observed During the 1997 and 2002 Surveys for
Special-status Plant Species,
2000 Burbank Avenue Site,
Santa Rosa, California

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Family</th>
<th>Scientific Name</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICOTYLEDONAE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anacardeaceae - Sumac Family</td>
<td><em>Toxicodendron diversiloba</em></td>
<td>Poison oak</td>
</tr>
<tr>
<td></td>
<td>Apiaceae - Parsley Family</td>
<td><em>Daucus carota</em></td>
<td>Queen Anne's lace</td>
</tr>
<tr>
<td></td>
<td>Asteraceae - Sunflower Family</td>
<td><em>Achyrachaena mollis</em></td>
<td>Blow-wives</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Anthemis cotula</em></td>
<td>Mayweed</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Baccharis pilularis var. consanguinea</em></td>
<td>Coyote brush</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Carduus pycrephalus</em></td>
<td>Italian thistle</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Chamomilla suaveolens</em></td>
<td>Pineapple weed</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Cichorium intybus</em></td>
<td>Cickory</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Cirsium vulgare</em></td>
<td>Bull thistle</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Hypocheris radicans</em></td>
<td>Rough cat's ear</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Lactuca serriola</em></td>
<td>Wild lettuce</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Picris echioides</em></td>
<td>Bristly oxtongue</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Senecio vulgaris</em></td>
<td>Common groundsel</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Tragopogon porrifolius</em></td>
<td>Salsify</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Xanthium strumarium</em></td>
<td>Cocklebur</td>
</tr>
<tr>
<td></td>
<td>Boraginaceae - Borage family</td>
<td><em>Plagiobothrys stipitatus var. stipitatus</em></td>
<td>Popcorn flower</td>
</tr>
<tr>
<td></td>
<td>Brassicaceae - Mustard Family</td>
<td><em>Brassica nigra</em></td>
<td>Black mustard</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Hirschfeldia incana</em></td>
<td>Mediterranean mustard</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Raphanus sativus</em></td>
<td>Wild radish</td>
</tr>
<tr>
<td></td>
<td>Callitricaceae - Water starwort Family</td>
<td><em>Callitriche marginata</em></td>
<td>Winged water starwort</td>
</tr>
</tbody>
</table>
APPENDIX B (CONT'D.).
Plant Species Observed During the 1997 and 2002 Surveys for
Special-status Plant Species,
2000 Burbank Avenue Site,
Santa Rosa, California

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Family</th>
<th>Scientific Name</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Campanulaceae - Bellflower Family</td>
<td>Downingia concolor</td>
<td>Downingia</td>
</tr>
<tr>
<td></td>
<td>Caryophyllaceae - Pink Family</td>
<td>Cerastium arvense</td>
<td>Mouse-ear chickweed</td>
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<tr>
<td></td>
<td></td>
<td>Spergularia rubra</td>
<td>Sand spurrey</td>
</tr>
<tr>
<td></td>
<td>Convolvulaceae - Morning-glory Family</td>
<td>Convolvulus arvensis</td>
<td>Field bindweed</td>
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<tr>
<td></td>
<td>Fabaceae - Pea Family</td>
<td>Lupinus bicolor</td>
<td>Annual lupine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lupinus nanus</td>
<td>Miniature lupine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medicago polymorpha</td>
<td>Bur-clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Melilotus alba</td>
<td>Sweet white clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trifolium depauperatum</td>
<td>Dwarf sack clover</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trifolium hirtum</td>
<td>Rose clover</td>
</tr>
<tr>
<td>Trifolium repens</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trifolium subterraneum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia cracca</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia sativa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vicia villosa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fagaceae - Oak Family</td>
<td>Quercus agrifolia</td>
<td></td>
<td>Coast live oak</td>
</tr>
<tr>
<td></td>
<td>Quercus lobata</td>
<td></td>
<td>Valley oak</td>
</tr>
<tr>
<td>Geraniaceae - Geranium Family</td>
<td>Erodium botrys</td>
<td></td>
<td>White-stemmed Filaree</td>
</tr>
<tr>
<td></td>
<td>Erodium cicutarium</td>
<td></td>
<td>Red-stemmed Filaree</td>
</tr>
<tr>
<td></td>
<td>Geranium dissectum</td>
<td></td>
<td>Cutleaf geranium</td>
</tr>
<tr>
<td>Lamiaceae - Mint Family</td>
<td>Marrubium vulgare</td>
<td></td>
<td>Horehound</td>
</tr>
</tbody>
</table>
APPENDIX B (CONT’D.).
Plant Species Observed During the 1997 and 2002 Surveys for
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<table>
<thead>
<tr>
<th>CLASS</th>
<th>Family</th>
<th>Scientific Name</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lythraceae - Loosestrife Family</td>
<td><em>Lythrum hyssopifolium</em></td>
<td>Purple loosestrife</td>
</tr>
<tr>
<td></td>
<td>Malvaceae - Mallow family</td>
<td><em>Malva neglecta</em></td>
<td>Mallow</td>
</tr>
<tr>
<td></td>
<td>Onagraceae - Evening Primrose Family</td>
<td><em>Epilobium</em> sp.</td>
<td>Fireweed</td>
</tr>
<tr>
<td></td>
<td>Plantaginaceae - Plantain Family</td>
<td><em>Plantago lanceolata</em></td>
<td>English plantain</td>
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<tr>
<td></td>
<td>Polygonaceae - Buckwheat Family</td>
<td><em>Polygonum</em> arenosum, <em>Rumex</em> acetosella</td>
<td>Knotweed, Sheep sorrel</td>
</tr>
<tr>
<td></td>
<td>Primulaceae - Primrose Family</td>
<td><em>Anagallis arvensis</em></td>
<td>Scarlet pimpernel</td>
</tr>
<tr>
<td></td>
<td>Ranunculaceae - Buttercup Family</td>
<td><em>Ranunculus californicus</em>, <em>Ranunculus muricatus</em></td>
<td>California buttercup, Spiny buttercup</td>
</tr>
<tr>
<td></td>
<td>Rosaceae - Rose Family</td>
<td><em>Rubus discolor</em></td>
<td>Himalaya berry</td>
</tr>
</tbody>
</table>

**MONOCOTYLEDONAE**

| Juncaceae - Rush Family | *Juncus phaeocephalus*, *Juncus tenuis* | Brown-headed rush, Slender rush |
| Liliaceae - Lily Family | *Brodiaea elegans* | Harvest brodiaea |
APPENDIX B (CONT’D.).
Plant Species Observed During the 1997 and 2002 Surveys for Special-status Plant Species,
2000 Burbank Avenue Site,
Santa Rosa, California

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Scientific Name</th>
<th>Common Name</th>
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<tbody>
<tr>
<td>Family</td>
<td>Poaceae - Grass Family</td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Aira caryophyllea</em></td>
<td>Annual hairgrass</td>
</tr>
<tr>
<td></td>
<td><em>Avena fatua</em></td>
<td>Wild oat</td>
</tr>
<tr>
<td></td>
<td><em>Briza minor</em></td>
<td>Little rattlesnake grass</td>
</tr>
<tr>
<td></td>
<td><em>Bromus carinatus</em></td>
<td>Brome grass</td>
</tr>
<tr>
<td></td>
<td><em>Bromus diandrus</em></td>
<td>Ripgut brome</td>
</tr>
<tr>
<td></td>
<td><em>Bromus hordaceus</em></td>
<td>Soft chess</td>
</tr>
<tr>
<td></td>
<td><em>Bromus madritensis</em> ssp. rubens*</td>
<td>Red brome</td>
</tr>
<tr>
<td></td>
<td><em>Cynodon dactylon</em></td>
<td>Bermuda grass</td>
</tr>
<tr>
<td></td>
<td><em>Danthonia californica</em></td>
<td>California oatgrass</td>
</tr>
<tr>
<td></td>
<td><em>Hordeum brachyantherum</em></td>
<td>Meadow barley</td>
</tr>
<tr>
<td></td>
<td><em>Hordeum marinium</em> ssp. gussoneanum</td>
<td>Mediterranean barley</td>
</tr>
<tr>
<td></td>
<td><em>Hordeum murinum</em> ssp. leporinum</td>
<td>Hare barley</td>
</tr>
<tr>
<td></td>
<td><em>Lolium perenne</em></td>
<td>Perennial ryegrass</td>
</tr>
<tr>
<td></td>
<td><em>Phalaris aquatica</em></td>
<td>Harding grass</td>
</tr>
<tr>
<td></td>
<td><em>Pleuropogon californicus</em></td>
<td>California semaphore grass</td>
</tr>
<tr>
<td></td>
<td><em>Poa annua</em></td>
<td>Annual bluegrass</td>
</tr>
<tr>
<td></td>
<td><em>Taeniatherum caput-medusae</em></td>
<td>Medusahead grass</td>
</tr>
<tr>
<td></td>
<td><em>Vulpia bromoides</em></td>
<td>Six-weeks fescue</td>
</tr>
</tbody>
</table>
APPENDIX D

CTS MITIGATION CREDIT RESERVATIONS
AGREEMENT FOR MITIGATION CREDITS
AND ESCROW INSTRUCTIONS

This Agreement for Mitigation Credits and Escrow Instructions ("Agreement") is entered into as of November 25, 2005 ("Contract Date") between Burbank Housing Development Corporation, a California Corporation ("Buyer") and Davis Preserve, LLC, a California limited liability company, ("Seller"). Buyer and Seller are sometimes individually referred to as "Party" and collectively referred to as "Parties."

RECITALS

A. Seller is negotiating with the Army Corps of Engineers ("Corps"), the US Fish & Wildlife Service ("USFWS"), California Department of Fish and Game ("CDFG"), Environmental Protection Agency ("EPA"), and the California Regional Water Quality Control Board (collectively "Approving Agencies") to obtain all of the necessary approvals and written agreements ("Approvals") to establish a mitigation preserve (the "Davis Preserve") pursuant to the mitigation requirements of the Approving Agencies for both California tiger salamander habitat credits ("CTS Credits") and for wetland preservation credits ("Preservation Credits") for the Davis property. Seller reasonably believes that the Davis Preserve will receive all of the Approvals from the Approving Agencies by October 3, 2005 ("Estimated Closing Date").

B. The current guidelines established by the Approving Agencies provide that each CTS Credit requires one-tenth of an acre in an approved reserve and that each Preservation Credit requires one-tenth of an acre in an approved reserve. The Parties understand that the Approving Agencies may change their guidelines which, as a result, may somehow affect the cost and/or allocation of Credits under this Agreement and/or the allocation of credits at the Davis Preserve in order for Seller to deliver the Credits under this Agreement. The Parties further agree and understand that if any Approving Agency does change any guideline or requirement which would impose a greater obligation on Seller than what is identified in this Agreement, then Buyer shall bear the risk and cost of any such greater obligation.

C. Seller will form the Davis Preserve, fund the endowment required by CDFG, and transfer the Davis Preserve to CDFG.

D. Seller shall sell to Buyer CTS Credits for $100,000 (One Hundred Thousand Dollars) per acre. Each CTS Credit shall represent one-tenth of an acre in the Davis Preserve and shall cost Ten Thousand Dollars ($10,000) per CTS Credit.

E. Seller shall sell to Buyer Preservation Credits for $100,000 (One Hundred Thousand Dollars) per acre. Each Preservation Credit shall represent one-tenth of an acre in the Davis Preserve and shall cost Ten Thousand Dollars ($10,000) per Preservation Credit.

F. Buyer is planning to develop assessor’s parcel number 125-421-019 and 125-421-018 located at 1980-2010 Burbank Avenue in the City of Santa Rosa, in the County of Sonoma, which development is referred to as the "Project." The Corps has not yet assigned a designation for Buyer’s Project.

G. Buyer desires to purchase from the Davis Preserve 10 acres of CTS Credits and 0.25 acres of Preservation Credits for Buyer’s Project and the Seller is willing to sell to Buyer 10 acres of CTS Credits and 0.25 acres of Preservation Credits for Buyer’s Project.
c. Release of Deposit.

i. The Deposit is only refundable if, and only if:

(A) The Seller fails by the Estimated Closing Date (i) to give Buyer written notification that Seller has obtained all of the Approvals from the Approving Agencies ("Approval Notice"); or (ii) to provide Buyer an alternative source for the Credits.

(B) Upon receiving the Approval Notice, Buyer shall have two (2) business days to notify Seller and Escrow Officer in writing that Buyer does not wish to proceed with this Agreement. If Buyer meets this condition, then Seller shall instruct Escrow Officer to release the Deposit and any interest thereon minus title costs to Buyer.

ii. The Escrow Officer shall release the Deposit to Seller immediately upon Seller notifying Escrow Officer that Seller gave Buyer the Approval Notice and/or providing an alternative source of Credits by the Estimated Closing Date.

iii. If Seller is able to deliver some but not all of either or both of the CTS Credits or the Preservation Credits by the Estimated Closing Date, Buyer shall pay for the portion of the Credits delivered by Seller pursuant to the terms of Paragraph 2 of this Agreement.

iv. If Seller is (i) unable to deliver either CTS Credits or the Preservation Credits by the Estimated Closing Date both Seller and Buyer shall be released from their respective obligations under this Agreement for the Credits not supplied. The Escrow Officer shall refund the Deposit for the Credits not supplied, and all accrued interest thereon to the Buyer. The transaction shall be completed for the Credits that Buyer provides.

d. Closing.

i. The Parties agree to close the purchase and sale as agreed to in this Agreement no later than ten (10) business days ("Closing Date") after Seller gives Buyer the Approval Notice. The Approval Notice shall also identify the Closing Date. The Seller shall also send a copy of the Approval Notice to the Escrow Officer. The period of time from the effective date of the Approval Notice to the Closing Date is referred to as the "Closing Period".

ii. No later than eight (8) business days after Seller gives Buyer the Approval Notice, Buyer shall deliver the Balance of the Purchase Price to the Escrow Officer in certified funds.

iii. No later than one (1) business day prior to the Closing Date, Seller shall deliver the Credits to the Title Company.
iv. The purchase will become final when Title Company disburses to Seller the Purchase Price and transfers the documentation for the Credits to Buyer.

4. Brokerage Commissions. Buyer and Seller shall each be responsible for their own brokerage commissions which may be payable in connection with this Agreement.

5. Title Company. First American Title Company ("Title Company") shall be the Escrow Officer for both the Seller and the Buyer, and herein shall be referred to as "Title Company." The contact information for Title Company is: First American Title Company, 135 Main Street - Suite #1200, San Francisco CA 94105, Attn: John Cabral, Senior Vice President, Telephone: (415) 989-1300, Facsimile: (415) 398-1750.

6. Title Company Fees and Transfer Fees.

a. If the transaction identified in this Agreement is completed, then Seller and Buyer shall equally share the escrow and title fees charged by the Title Company, however, Buyer shall pay all Title Company fees from the opening of the escrow for this transaction until the closing of this transaction, which fees shall be deducted from Buyer's Deposit. The Title Company fees are non-refundable and immediately payable to the Title Company. Buyer will be credited at Closing for 50% of the total fees invoiced by Title Company. Buyer shall pay all the cost of recording or registering the transfer of the Credits from Seller to Buyer. Buyer’s failure to pay the Title Company fees is a material breach of this Agreement and shall relieve Seller of any duty to perform any of its duties or obligations required by this Agreement.

b. If the transaction identified in this Agreement is completed, then Buyer shall pay for all of the escrow and title fees charged by the Title Company unless the entire Buyer's Deposit is returned to Buyer pursuant to the terms of Paragraph 3(c)(iii)

7. Seller’s Warranties to Buyer. Seller represents and warrants to Buyer the following:

a. By the Closing, Seller will have obtained all of the Approvals to establish the Davis Preserve from the Approving Agencies.

b. By the Closing, Seller will have good and marketable title to such Credits.

c. Seller agrees to maintain the Davis Preserve, to meet the requirements of the Approving Agencies, and to maintain the validity of the Credits purchased by the Buyer.

d. Seller agrees not to enter into any agreement that would "over-sell" the interest in the Davis Preserve held by the Seller or diminish the number of Credits allocated to Buyer under this Agreement.

e. Seller does not warrant the Credits are applicable to Buyer’s Project. Buyer is solely responsible for determining the suitability of Seller’s Credits for Buyer’s Project.

Agreement for Mitigation Credits Page 4 of 8
f. Seller does not warrant Buyer's ability to resell or transfer the Credits.

g. Seller does not warrant that the Credits identified in Paragraph 2 of this Agreement are all of the Credits that Buyer will require to satisfy the requirements of the Approving Agencies for Buyer's Project.

h. Seller does not warrant that the cost of Credits identified in Paragraph 2 of this Agreement is the total cost that Buyer will incur to satisfy the requirements of the Approving Agencies for Buyer's Project.

i. The execution and delivery of this Agreement and the performance of Seller's obligations hereunder have been or will be duly authorized by all necessary action on the part of Seller and this Agreement constitutes the legal, valid and binding obligation of Seller. The individuals signing this Agreement on behalf of Seller have the power, right and authority to (a) enter into this Agreement, (b) bind Seller hereto, and (c) consummate the transaction contemplated hereby, without the consent or joinder of any other party or order or approval of any court.

8. **Buyer's Warranties to Seller.** At the Closing, Seller will represent and warrant to Buyer the following:

a. Buyer has performed all of the due diligence necessary to determine whether Buyer may use the Credits for Buyer's Project. Buyer is solely responsible for determining the suitability of Seller's Credits for Buyer’s Project. Buyer has performed all of the due diligence necessary to determine whether Buyer may resell or transfer the Credits.

b. The execution and delivery of this Agreement and the performance of Buyer's obligations hereunder have been or will be duly authorized by all necessary action on the part of Buyer and this Agreement constitutes the legal, valid and binding obligation of Buyer. The individuals signing this Agreement on behalf of Buyer have the power, right and authority to (a) enter into this Agreement, (b) bind Buyer hereto, and (c) consummate the transaction contemplated hereby, without the consent or joinder of any other party or order or approval of any court.

9. **Buyer's Conditions to Closing.** Buyer's obligation to pay the Purchase Price provided in this Agreement is conditioned solely upon Seller serving the Approval Notice on Buyer pursuant to the terms of this Agreement. This includes selling Buyer Credits from another of Seller's source.

10. **Source of Credits.** Seller has multiple sources from which to provide the Credits to Buyer and Seller reserves the right to provide the CTS Credits or the Preservation Credits or both from any of Seller's bank or preserve sources or from the bank or preserve sources of Seller's affiliates, at the Purchase Price so long as the replacement source for the Credits provides the same mitigation results for the Buyer.

11. **Further Acts.** Each Party agrees to take such further action and to execute and deliver such further documents as may be necessary to carry out the purposes of this Agreement.
12. **No Liquidated Damages.** If Seller timely gives the Approval Notice to Buyer, and if Buyer fails to complete this purchase, then:

a. Buyer shall be obligated to pay the Balance of the Purchase Price to Seller.

b. Seller may, but is not obligated to, maintain the Credits for Buyer’s account.

13. **Entire Agreement.** This Agreement contains the entire understanding between the Seller and Buyer and constitutes the sole and only agreement between the Seller and Buyer concerning the subject matter hereof or the rights, duties, and obligations of the Seller and Buyer in connection herewith. Any agreements or representations between the Seller and Buyer hereto prior to the date of this Agreement regarding the sale of Credits to Buyer by Seller and concerning the subject matter of this Agreement that are not expressly set forth in the Agreement are null and void. Should any part, term or provision of this Agreement be declared or be determined by any court to be illegal or invalid for any reason, the validity of the remaining parts, terms and provisions shall not be affected thereby and said illegal or invalid part, term or provision shall be deemed not to be a part of this Agreement. The language of this Agreement shall be construed as a whole, according to its fair meaning and intent, and not strictly for or against any Party hereto, regardless of who drafted or was principally responsible for drafting this Agreement or any specific terms or conditions thereof. This Agreement shall be deemed to have been drafted by all Parties hereto, and no Party shall urge otherwise.

14. **Amendments.** No amendment, modification, addendum, or revision of this Agreement shall be valid unless it is in writing and signed by the Party or Parties to be bound.

15. **Waivers.** No waiver by a Party of any provision of this Agreement shall be considered a waiver of any other provision or any subsequent breach of the same or any other provision, including the time for performance of any such provision. The exercise by a Party of any remedy provided in this Agreement or at law shall not prevent the exercise by that Party of any other remedy provided in this Agreement or at law.

16. **Time Is Of The Essence.** Time is of the essence with respect to the provisions of this Agreement. This provision shall be interpreted to its strictest sense, with any failure to perform any requirement set forth herein on or before the date upon which performance is due, even if performance is late by only a single day, resulting in the relief upon default set forth above without regard to the relative hardship to the Parties.

17. **Governing Law.** This Agreement shall be governed by and construed in accordance with the laws of the State of California.

18. **Counterparts; Facsimile Signatures.** This Agreement may be executed in two or more counterparts and via facsimile transmission with original signatures to follow, each of which shall be deemed an original, but all of which taken together shall constitute one and the same instrument. The Parties agree that facsimile signatures may be used to expedite the transaction contemplated by this agreement. Each party intends to be bound by its facsimile signature and each is aware that the other will rely on the facsimile signature, and each acknowledges such reliance and waives any defenses to the enforcement of the documents effecting the transaction contemplated by this Agreement based on a facsimile signature.
19. Notices. All notices, requests, demands, or other communications under this Agreement shall be in writing. Notice shall be sufficiently given for all purposes in any of the following ways:

a. **Personal Delivery.** When personally delivered to the recipient, notice is effective upon delivery.

b. **United States Mail.** When mailed with postage prepaid, notice is effective five (5) calendar days after mailing.

c. **Overnight Delivery.** When delivered by a national overnight delivery service, charges prepaid or charged to the sender's account, notice is effective on delivery, if delivery is confirmed by the delivery service, otherwise two (2) business days after it is logged into the tracking system of the delivery service.

d. **Facsimile Transmission.** When sent by facsimile ("fax") to the last fax telephone number of the recipient known to the Party giving notice, notice given in this manner is effective on receipt, provided that a duplicate copy of the notice is promptly sent by mail or by overnight delivery. Any notice given by fax shall be deemed received on the next business day if it is received after 5:00 p.m. (recipient's time) or on a non-business day.

e. **Addresses and Fax Telephone Numbers.** Addresses and fax telephone numbers for purpose of giving notice are as set forth below. Any Party may change its address or fax number by notifying the other Parties of the change in any manner permitted by this Agreement. Notice to a Party's attorney constitutes notice to that Party.

**Seller:**

Davis Preserve, LLC  
336 Bon Air Center – Box 232  
Greenbrae, CA 94904  
Attention: Harvey O. Rich, Managing Member  
Telephone: (415) 472-1086  
Facsimile: (415) 491-1147

**Buyer:**

Burbank Housing Development Corporation  
3432 Mendocino Avenue  
Santa Rosa, CA 95403  
Attention: John Lowry, Executive Director  
Telephone: 707-526-9782  
Facsimile: 707-526-9811

20. **Attorney's Fees.** In the event that any legal dispute arises under this Agreement the prevailing Party shall be entitled to recover as an element of its costs of suit, and not as damages, its actual attorney's fees and costs (including expert witness fees) from the other Party. The "prevailing Party" shall be the Party who is entitled to recover its costs of suit, whether or not suit proceeds to final judgment. A Party not entitled to
recover its costs shall not recover attorney fees. No sum for attorney's fees shall be included in calculating the amount of a judgment for purposes of deciding whether a Party is entitled to its costs or attorney's fees.

21. Review by Counsel. Each Party acknowledges that he/she/it has been represented (or has had the opportunity to be represented) in the review and signing of this Agreement by independent legal counsel selected of that Party's free will.

BUYER

Burbank Housing Development Corporation
A California Corporation

By: John Lowry
Its: Executive Director

Dated: May 20, 2005.

SELLER

Davis Preserve, LLC.
A California Limited Liability Company

By: Harvey O. Rich
Its: Managing Member

Dated: May 20, 2005.
Hazel Mitigation Preserve, LLC
336 Bon Air Center - Box 232
Greenbrae, CA 94904
(415)-472-1086

PROJECT: HAZEL MITIGATION BANK

PAYMENT RECEIPT: 10.00 ACRES OF CALIFORNIA TIGER SALAMANDER CREDITS

PARTICIPANT INFORMATION

Name: Burbank Housing Development Corporation
Address: 790 Sonoma Avenue
         Santa Rosa, CA 95404
Telephone: 707-526-9782
Contact: John Lowry

PROJECT INFORMATION

Project Description: Burbank Avenue Apartments is a 117-unit family rental project on approximately 5 acres. The project will feature 2- and 3-story rental units ranging from 1 bedroom/1 bath units at 600 square feet to 4 bedroom/2 bath units at 1,400 square feet with garages.

Service File Number:
Species/Habitat Affected: California tiger salamander
Credits to be Purchased: 10.00 acres
Payment Amount: $1,000,000
Project Location: 1980-2010 Burbank Avenue, Santa Rosa
County/Address: Sonoma County
Assessor's Parcel Number(s): 125-421-019 and 125-421-018

PAYMENT INFORMATION

Payee: Hazel Mitigation Preserve, LLC
Payer: Burbank Housing Development Corporation
Amount: $1,000,000
Method of Payment: Cash: Exchange of funds at First American Title Company

Received:
Hazel Mitigation Preserve, LLC,
A California Limited Liability Company

By: ____________________________ Date: June 1, 2006
   Harvey O. Rich

Its: Managing Member
Hazel Mitigation Preserve, LLC
336 Bon Air Center - Box 232
Greenbrae, CA 94904
(415)-472-1086

BILL OF SALE

Buyer: Burbank Housing Development Corporation

Type and Amount of Credits: 10.00 acres of California tiger salamander credits

Project Name: Burbank Avenue Apartments

Project Assessor’s Parcel Number(s): 125-421-019 and 125-421-018

Contract Date: 11/03/05

Service File Number:

Army Corps Number: 22495N

In consideration of $1,000,000, receipt of which is hereby acknowledged, Hazel Mitigation Preserve, LLC, does hereby bargain, sell and transfer to Burbank Housing Development Corporation, herein referred to as “Buyer,” 10.00 acres of California tiger salamander credits (“CTS Credits”) in the Hazel Mitigation Bank in Sonoma County, California, developed, and approved by the U. S. Fish and Wildlife Service, the U. S. Army Corps of Engineers, the U. S. Environmental Protection Agency, the California Department of Fish and Game, and the North Coast Regional Water Quality Control Board of the State of California.

Hazel Mitigation Preserve, LLC, represents and warrants that it has good title to the CTS Credits, has good right to sell the same, and that they are free and clear of all claims, liens, or encumbrances.

Hazel Mitigation Preserve, LLC, covenants and agrees with the Buyer to warrant and defend the sale of the CTS Credits herein before described against all and every person and persons whomsoever lawfully claiming or to claim the same.

DATED: June 2, 2006

Hazel Mitigation Preserve, LLC,
A California Limited Liability Company

By: [Signature]
Harvey O. Rich
Its: Managing Member
BILL OF SALE

DATE: APRIL 19, 2006

FROM: TRI DEVELOPMENT SERVICES, LLC,
336 BON AIR CENTER - BOX 387
GREENBRAE, CA 94904
415-472-1066
CONTACT: HARVEY RICH, MANAGING MEMBER

CUSTOMER: BURBANK HOUSING DEVELOPMENT CORPORATION
790 SONOMA AVENUE
SANTA ROSA, CA 95404
707-526-9782
CONTACT: JOHN LOWRY, EXECUTIVE DIRECTOR

BURBANK HOUSING DEVELOPMENT CORPORATION HAS COMPLETED THE PURCHASE OF THE FOLLOWING ENVIRONMENTAL MITIGATION FROM OUR COMPANY:

PRESERVATION ACREAGE

PROJECT: BURBANK AVENUE APARTMENTS
AMOUNT OF ACREAGE: 0.2
PRICE PER ACRE: $100,000
TOTAL PRICE: $20,000
ESCROW NUMBER: 1938155
ESCROW HOLDER: FIRST AMERICAN TITLE COMPANY
SOURCE: DAVIS PRESERVE
CA DEPT. OF FISH & GAME APPROVAL NO.: 1802-2006-001-03
U.S. FISH & WILDLIFE APPROVAL LETTER: MARCH 15, 2006
BILL OF SALE

Davis Preserve, LLC
a California limited liability company

BY:
Harvey O. Rich, Managing Member

CALIFORNIA NOTARY ACKNOWLEDGEMENT

STATE OF CALIFORNIA )
COUNTY OF SONOMA )SS

On April 25, 2006 before me, LYND A J. BOUNSALL, Notary Public personally appeared personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies) and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature

My Commission Expires: 09-02-2008

Notary Name: LYND A J. BOUNSALL
Notary Registration Number: SEE STAMP

Notary Phone: 707-823-1046
County of Principal Place of Business: SEE STAMP

This area for official notarial seal
Mr. Jeffrey C. Kolin  
City Manager  
Office of the City Manager  
100 Santa Rosa Avenue  
P.O. Box 1678  
Santa Rosa, California 95402-1678

Dear Mr. Kolin:

The purpose of this letter is to provide guidance to local jurisdictions regarding the U.S. Fish and Wildlife Service (FWS) and California Department of Fish and Game (DFG) current approach to mitigate for potential impacts to the California tiger salamander (CTS), listed plants and their habitat associated with development on the Santa Rosa Plain. Coordination of Federal, State and local efforts to preserve the species and a consistent approach for mitigation are vital to habitat preservation and the long-term conservation of the species, and should provide more certainty and efficiency in the project review process.

As you know, FWS and DFG have been working with the Conservation Strategy Team made up of U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, North Coast Regional Water Quality Control Board, local agencies, and representatives from the Laguna de Santa Rosa Foundation, environmental community and the private landowner community. This team assembled and reviewed information relating to local land use and development patterns and biological considerations for the conservation of the CTS, listed plants and their habitats. The goal of the team is to develop a proposed conservation strategy for the Santa Rosa Plain. While this process has not been completed and the proposed Conservation Strategy has not undergone review and consideration by the agencies and the public, the information assembled has provided the FWS and DFG with substantial information to provide guidelines for mitigation for individual projects.

In particular, the conservation team has developed extensive information about areas that are suitable for the establishment of habitat preserves. Fragmentation of CTS and listed plant habitat across the Santa Rosa Plain is one of the most serious issues associated with development. The FWS and DFG have sought to focus our mitigation efforts on preventing further fragmentation and establishing, to the maximum extent possible, a viable preserve system that will contribute to the long-term conservation and recovery of the species.

The FWS and DFG intend to continue to work with the local jurisdictions and other stakeholders in the Santa Rosa Plain area to develop and implement a long-term strategy for conservation of CTS, listed plants and their habitat based on the information developed by the Conservation Strategy Team. However, in the interim, it is critical that the agencies continue to coordinate their efforts to ensure that mitigation as part of the project review process at the federal and local level is consistent and supports the long-term conservation goals identified by the Conservation Strategy Team.

The FWS and DFG intend to follow the interim guidelines that have been developed and currently apply in reviewing project-specific mitigation requirements (Enclosure). These guidelines have been reviewed by the Conservation Strategy Team and the Draft Conservation Strategy has been peer reviewed by biologists and is consistent with their
overall long-term goals for CTS and listed plant conservation. The Conservation Strategy Team has identified these guidelines as appropriate "Interim Mitigation" in its draft of Conservation Strategy. The interim approach used by the FWS and DFG includes established mitigation ratios based on proximity to CTS breeding pools, use of the existing Plant Programmatic Biological Opinion, as well as standards for the establishment of proposed preserve sites, guidelines regarding the use of mitigation banks, management and enhancement of habitat and translocation of the species. In addition, certain projects will require additional measures to minimize take of the listed species. It is our understanding that the local jurisdictions have been provided with this information and will also incorporate, to the extent appropriate, the interim mitigation in their environmental review process for individual projects.

Development of a network of preserves should provide increased conservation benefits as compared to the piecemeal approach to individual project mitigation. Preservation of contiguous or connected habitat, subject to management and monitoring practices designed to enhance that habitat, should result in more extensive, high-quality habitat. Focusing mitigation in the most suitable areas is likely to encourage the restoration or creation of new habitat. This should minimize habitat fragmentation that would result without a coordinated approach and should result in additional viable CTS habitat in suitable areas, providing the opportunity for the long-term increase that conserve the listed species and contribute to their recovery in the Santa Rosa Plain.

The FWS and DFG intend to continue to follow this approach pending finalization and implementation of a long-term conservation strategy. The FWS and DFG urge all of the local agencies to incorporate this approach to mitigation in their review process at the local level. Finally, the local jurisdictions' ongoing process of coordinating its CEQA review process with FWS and DFG has been very helpful to us. The FWS and DFG encourage the local jurisdictions to continue this informal process to ensure a timely response to projects that are ready to proceed at a local level. However, we urge the local jurisdictions to adopt and implement a long-term solution that conserves listed species in the Santa Rosa Plain.

If you have any questions about the FWS or DFG's interim approach for the Santa Rosa Plain, please contact Cey C. Coude with FWS at (916) 414-6600 or Carl Wilcox with DFG at (707) 944-5525.

Sincerely,

Wayne S. White
Field Supervisor
Sacramento Fish and Wildlife Office

Robert W. Fliorke
Regional Manager
Central Coast Region

Enclosure
Areas generally being considered by the U.S. Fish and Wildlife Service (FWS) and California Department of Fish and Game (DFG) for developing preserves within the Santa Rosa Plain are shown on the City of Santa Rosa's Website http://ci.santa-rosa.ca.us/default.aspx?PageId=1111.

Mitigation for projects that impact either CTS or listed plants on the Santa Rosa Plain can be achieved either through the acquisition of a conservation easement or fee title and long-term management of individual mitigation sites or the acquisition of mitigation credits from a mitigation bank approved by the agencies. Generally, the FWS and DFG are using the following guidelines for mitigation.

Mitigation of 3:1. For projects with impact on breeding habitat, i.e., those that are within 500 feet of a known breeding site(s).

Mitigation of 2:1. For projects with an impact on upland habitat, i.e., those that are greater than 500 feet, and within 2200 feet of a known breeding site(s), or within 500 feet of an adult occurrence.

Mitigation of 1:1. For projects with an impact on dispersal habitat, i.e., those that are greater than 2200 feet, and within 1.3 miles of a known breeding site(s). Also, projects outside of 1.3 miles of a known breeding site(s), which have potential CTS habitat could mitigate at 1:1 or do surveys as described, below.

During this interim period, a project proponent may choose to survey (using FWS/DFG Survey Guidance) to determine CTS presence or absence. If CTS are not found during these surveys then mitigation would not be required. In the event CTS is found, mitigation shall be as outlined above. Individual projects would need to be independently evaluated by the FWS/DFG.

Proposed individual mitigation sites must meet or exceed the following minimum performance standards/suitability requirements:

(1) Be within the boundary of one of the Conservation Areas as shown on the web site.

(2) The mitigation site must meet one of the following standards:

a. Contain known, occupied CTS breeding, aestivation, or dispersal habitat and/or known population or populations of federally listed plants; or represent potential CTS or plant habitat. With respect to potential CTS or plant habitat the site must exhibit, in the judgment of the FWS or DFG, reasonable potential for habitat restoration or enhancement; or

b. Be approved by the FWS and DFG and function as 1) a buffer separating an existing or likely future preserve site from nearby incompatible land uses (e.g., areas without CTS habitat); 2) a corridor or link from one preserve site to another or one conservation area to another; or 3) an open space that provides other specific and recognizable conservation value for listed species.
(3) The mitigation site must be free of excessive land surface features (e.g., roads parking lots, other hardened surfaces, buildings or other structures or extensive hardscape) that cause a significant portion of the site to be unsuitable as CTS or plant habitat. Generally, no more that 15 percent of the land surface of any potential preserve site may include or be covered by such features unless it is to be restored as part of the preservation action.

(4) The mitigation site shall not be isolated from other nearby CTS habitats (preserve or non-preserve) by incompatible land uses (e.g., hardscape) or other significant barriers to CTS movement and dispersal (e.g., Highway 101).

(5) The mitigation site shall not be inhabited by fish and bullfrogs or other non-native predatory species, unless, in the judgment of FWS and DFG, such species can be effectively removed or eradicated.

(6) The mitigation site shall not be within the Laguna de Santa Rosa 100-year floodplain.

(7) The mitigation site shall not exhibit history or evidence of the presence (storage or use) of hazardous material on the surface of the site unless proof of removal or remediation can be provided.

(8) The applicant/developer shall provide fee title or a conservation easement as required by DFG and FWS. The property shall be preserved for the benefit of the affected species, and any retained activities (i.e., agricultural) must be compatible with this purpose.

(9) The applicant/developer shall provide a wetland creation plan, if wetlands are filled, as or if CTS breeding pools/ponds are to be created.

(10) The applicant/developer shall provide a Mitigation and Monitoring Management Plan that contains, at a minimum, the following components:

a. The mitigation lands must be managed and monitored, and any necessary enhancements, as required by DFG and FWS, must be enforceable.

b. The Mitigation and Monitoring Management Plan shall describe specific management actions necessary to manage, enhance, and preserve the resources protected and created on the site and monitoring that will be conducted to determine the success of created wetland and the statue of the protected resources and effectiveness of specified management actions.

c. Endowment: funding in an amount determined by the DFG and FWS shall be provided to assure long-term management and monitoring.
Dr. Laurence P. Stromberg, Ph.D.
59 Jewell Street
San Rafael, California 94901

Subject: Request for a "No Effect" Determination, 2000 Burbank Site, Santa Rosa, California

Dear Dr. Stromberg:

This letter is in response to your letter dated October 30, 2003, requesting the U.S. Fish and Wildlife Service (Service) concur with your determination that development of the 6.8 acre site at 2000 Burbank Avenue in Santa Rosa, California would have "no effect" on the endangered Sonoma County Distinct Population Segment of the California tiger salamander (Ambystoma californiense) (tiger salamander) or its habitat. This response is provided in accordance with the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.) (Act).

It is our conclusion that development of these lots is likely to result in take of tiger salamanders by potentially killing individuals and by destroying upland aestivation and dispersal habitat. We base this determination on the following:

1) To our knowledge, no surveys have been conducted on the project site to determine whether tiger salamanders use the site as aestivation or dispersal habitat.

2) The project site is located approximately 1.2 km (0.73 mi) and 0.79 km (0.49 mi) north to northeast of two known breeding sites, one at the corner of Hearn Avenue and Old Stony Point Road (CNDDB #653) and the other at Southwest Community Park (Cook and Northern #9). This distance is within the dispersal range of tiger salamanders. Much of the area between the breeding pool and project site remains in a fairly undeveloped state.

3) While the project site has been disturbed in the past, the site is still in a condition that could support activity by burrowing rodents, providing aestivation habitat for tiger salamanders.
4) Though buildings, parking lots, and streets occur between these two areas and could impede movement, they do not present a barrier to tiger salamanders movement between the sites.

Section 9 of the Act and its implementing regulations prohibit the “take” of federally listed fish and wildlife species. Take is defined by the Act as “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect” any listed wildlife species. “Harm” in this definition includes significant habitat modification or degradation where it actually kills or injures wildlife, by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering (50 CFR § 17.3). “Harass” means an intentional or negligent act or omission which creates the likelihood of injury to wildlife by annoying it to such an extent as to disrupt normal behavioral patterns which include, but are not limited to breeding, feeding, or sheltering.

We recommend that permitted biologists survey the project site to determine if tiger salamanders occur on the site. The Service has developed survey guidance that we believe reliably determines the presence of tiger salamanders on a project site. The most recent survey guidance can be obtained by contacting this office. In addition, we recommend that no diskimg of the property take place until surveys and any necessary consultation is completed to avoid take of tiger salamanders. In lieu of conducting surveys, you may choose to pursue incidental take exemption immediately because there is a reasonable likelihood the project will result in take of tiger salamanders for the reasons described above.

Take incidental to an otherwise lawful activity may be authorized by one of two procedures. If a Federal agency is involved with the permitting, funding, or carrying out of this project, and a listed species is going to be adversely affected, then initiation of consultation between that agency and the Service pursuant to section 7 of the Act is required. Such consultation would result in a biological opinion addressing anticipated effects of the project to the listed species and may exempt a limited level of incidental take from section 9 of the Act. If the project may result in the take of listed species and no Federal agency is involved, then an “incidental take” permit pursuant to section 10(a)(1)(B) of the Act should be obtained. The Service may issue such a permit upon completion by the permit applicant of a satisfactory conservation plan for the listed species that would be affected by the project.

Please contact Mary Hammer or Dan Buford of my staff at the letterhead address or at (916) 414-6625, if you have any questions.

Sincerely,

[Signature]

Cay C. Goude
Acting Field Supervisor

cc:
Burbank Housing Development Corporation, Santa Rosa, CA (John Lowry)
City of Santa Rosa, Santa Rosa, CA
TO: Mr. John Lowry

ADDRESS: Burbank Housing Development Corporation
3432 Mendocino Avenue
Santa Rosa, CA 95403

PROJECT: NO-EFFECTS DETERMINATION, LETTER REQUEST

DATE: October 17, 2003

Transmitted material:

<table>
<thead>
<tr>
<th>Sets/Copies</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>draft letter requesting no-effects determination for the property at 2000 Burbank Avenue</td>
</tr>
</tbody>
</table>

The material is transmitted Via:

- For your approval
- For your review and comment
- For your information
- As requested

Regular mail x
FedEx
FedEx Priority
UPS
Hand-delivery
Other

COMMENTS: John -- here is the letter. Please provide your comments. Upon your review I will make whatever changes you request and submit the letter directly to Dan Buford.

Larry Stromberg
Appendix E – Traffic and Air Quality

Traffic Impact Study for Crossroads Apartments

in the

County of Sonoma

Draft Report

July 28, 2010
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A Intersection Level of Service Calculations
B Collision Rate Spreadsheets
Executive Summary

The focus of this evaluation was to identify the potential traffic impacts associated with a 79-unit multi-family residential complex at 1980 – 2010 Burbank Avenue in unincorporated County of Sonoma. The project site is located in a County island within the City of Santa Rosa in the Roseland neighborhood. Vehicle access would be provided on Liana Drive which currently ends west of Biwana Drive, but would extend to Burbank Avenue with the completion of this project. This connection would provide access to both West Avenue and Burbank Avenue.

The project is expected to generate approximately 602 daily new vehicle trips, of which 42 new trips would occur during the a.m. peak hour and 61 new trips would occur during the p.m. peak hour. Additionally, the project has a potential for generating new pedestrian, bicycle and transit-oriented trips.

Vehicle conditions were evaluated for a.m. and p.m. peak hours under Baseline, Baseline plus Project, Future and Future plus Project conditions for the following six intersections:

1. Burbank Avenue/Sebastopol Road
2. Burbank Avenue/Liana Drive (future intersection)
3. Biwana Drive/Liana Drive
4. West Avenue/Liana Drive
5. Burbank Avenue/Hearn Avenue
6. Hearn Avenue/West Avenue

All study intersections are located in unincorporated County of Sonoma except for the intersection of Burbank Avenue/Hearn Avenue which is located within the City of Santa Rosa.

It was found that all study intersections currently operate acceptably and would be expected to continue to do so with the addition of project-generated trips. Under future conditions, the intersections of Burbank Avenue/Hearn Avenue and Hearn Avenue/West Avenue are expected to operate unacceptably with conditions worsening with the addition of project-generated traffic. To mitigate the unacceptable operations at Burbank Avenue/Hearn Avenue, it is recommended that the County of Sonoma coordinate with the City of Santa Rosa to collect the appropriate Development Impact Fees that could be used towards signalization of this intersection. No mitigations are recommended for the intersection for Hearn Avenue/West Avenue because the project would add less than five seconds of average delays which is below the threshold for significance as defined by the County of Sonoma.

Currently, Liana Drive terminates west of Biwana Drive resulting in very little east-west through traffic meaning that drivers turning at this intersection are used to making the turn relatively unopposed. With the extension of Liana Drive, the volume of east-west traffic would increase creating more conflicting traffic for drivers making turning movements at the intersection of Liana Drive/Biwana Drive. To improve safety at this intersection it is recommended that the intersection be converted to an all-way stop control.

Sidewalks would be provided along the project frontage which would connect to adjacent sidewalk along Liana Drive and would provide continuous sidewalk connections to the nearby Sheppard Accelerated Elementary School, Roseland Accelerated Middle School, Apples and Bananas Preschool and transit service. Beyond the project frontage, sidewalks would not be provided along Burbank Avenue. Currently, the Roseland Creek Elementary School is under construction to the north of the project site, so it is recommended that the Burbank Housing Development Corporation coordinate with the Roseland School District to try to provide continuous pedestrian facilities between the proposed project and the school. Existing bicycle and transit facilities are expected to adequately serve the proposed project.
Introduction and Study Parameters

Introduction

This report presents an analysis of the potential traffic impacts that would be associated with development of a proposed Crossroads Apartments by the Burbank Housing Development Corporation to be located at 1980 and 2010 Burbank Avenue in Roseland, an unincorporated pocket of Sonoma County within the City of Santa Rosa. The traffic study was completed in accordance with the criteria established by the County of Sonoma as well as the City of Santa Rosa, and is consistent with standard traffic engineering techniques.

Prelude

The purpose of a traffic impact study is to provide County and City staff and policy makers with data that they can use to make an informed decision regarding the potential traffic impacts of a proposed project, and any associated improvements that would be required in order to mitigate these impacts to a level of insignificance as defined by the County's General Plan or other policies. Traffic impacts are typically evaluated by determining the number of new trips that the proposed use would be expected to generate, distributing these trips to the surrounding street system based on existing travel patterns or anticipated travel patterns specific to the proposed project, then analyzing the impact the new traffic would be expected to have on critical intersections or roadway segments.

Project Profile

Burbank Housing Development Corporation is proposing a 79-unit multi-family residential development at 1980 – 2010 Burbank Avenue. The site is located in an unincorporated pocket of Sonoma County between Sebastopol Road and Hearn Avenue and in the southwest quadrant of the City of Santa Rosa. The site is currently vacant with low-density residential uses to the north, west and south and an older single-family residential subdivision and Shepherd Elementary School to the east. A new school, Roseland Creek Elementary School, is currently under construction about one-quarter of a mile north of the project site. The project would access Burbank Avenue and would also extend Liana Drive to connect Burbank Avenue to West Avenue.

Study Area and Periods

As shown on Figure 1, the study area consists of the following intersections:

1. Burbank Avenue/Sebastopol Road
2. Burbank Avenue/Liana Drive (future intersection)
3. Biwana Drive/Liana Drive
4. West Avenue/Liana Drive
5. Burbank Avenue/Hearn Avenue
6. Hearn Avenue/West Avenue

The intersection of Burbank Avenue/Hearn Avenue is under the jurisdiction of the City of Santa Rosa while all other study intersections are located in unincorporated County of Sonoma.

Operating conditions during the a.m. and p.m. peak periods were evaluated to capture the highest potential impacts for the proposed project as well as the highest volumes on the local transportation network. The morning peak hour occurs between 7:00 and 9:00 a.m. and reflects conditions during the home to work or school commute, while the p.m. peak hour occurs between 4:00 and 6:00 p.m. and typically reflects the highest level of congestion during the homeward bound commute.
Traffic Impact Study for Crossroads Apartments

County of Sonoma

Study Area and Existing Lane Configurations
Intersection Level of Service Methodologies

Level of Service (LOS) is used to rank traffic operation on various types of facilities based on traffic volumes and roadway capacity using a series of letter designations ranging from A to F. Generally, Level of Service A represents free flow conditions and Level of Service F represents forced flow or breakdown conditions. A unit of measure that indicates a level of delay generally accompanies the LOS designation.

The study intersections were analyzed using methodologies published in the *Highway Capacity Manual* (HCM), Transportation Research Board, 2000. This source contains methodologies for various types of intersection control, all of which are related to a measurement of delay in average number of seconds per vehicle.

The Levels of Service for the intersections with side street stop controls, or those which are unsignalized and have one or two approaches stop controlled, were analyzed using the “Two-Way Stop-Controlled” intersection capacity method from the HCM. This methodology determines a level of service for each minor turning movement by estimating the level of average delay in seconds per vehicle. Results are presented for individual movements together with the weighted overall age delay for the intersection.

The study intersections that are currently controlled by a traffic signal, or may be in the future, were evaluated using the signalized methodology from the HCM. This methodology is based on factors including traffic volumes, green time for each movement, phasing, whether or not the signals are coordinated, truck traffic, and pedestrian activity. Average stopped delay per vehicle in seconds is used as the basis for evaluation in this LOS methodology. For purposes of this study, delays were calculated using optimized signal timing.

The ranges of delay associated with the various levels of service are indicated in Table 1.

<table>
<thead>
<tr>
<th>LOS</th>
<th>Two-Way Stop-Controlled</th>
<th>Signalized</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Delay of 0 to 10 seconds. Gaps in traffic are readily available for drivers exiting the minor street.</td>
<td>Delay of 0 to 10 seconds. Most vehicles arrive during the green phase, so do not stop at all.</td>
</tr>
<tr>
<td>B</td>
<td>Delay of 10 to 15 seconds. Gaps in traffic are somewhat less readily available than with LOS A, but no queuing occurs on the minor street.</td>
<td>Delay of 10 to 20 seconds. More vehicles stop than with LOS A, but many drivers still do not have to stop.</td>
</tr>
<tr>
<td>C</td>
<td>Delay of 15 to 25 seconds. Acceptable gaps in traffic are less frequent, and drivers may approach while another vehicle is already waiting to exit the side street.</td>
<td>Delay of 20 to 35 seconds. The number of vehicles stopping is significant, although many still pass through without stopping.</td>
</tr>
<tr>
<td>D</td>
<td>Delay of 25 to 35 seconds. There are few acceptable gaps in traffic, and drivers may enter a queue of one or two vehicles on the side street.</td>
<td>Delay of 35 to 55 seconds. The influence of congestion is noticeable, and most vehicles have to stop.</td>
</tr>
<tr>
<td>E</td>
<td>Delay of 35 to 50 seconds. Few acceptable gaps in traffic are available, and longer queues may form on the side street.</td>
<td>Delay of 55 to 80 seconds. Most, if not all, vehicles must stop and drivers consider the delay excessive.</td>
</tr>
<tr>
<td>F</td>
<td>Delay of more than 50 seconds. Drivers may wait for long periods before there is an acceptable gap in traffic for exiting the side streets, creating long queues.</td>
<td>Delay of more than 80 seconds. Vehicles may wait through more than one cycle to clear the intersection.</td>
</tr>
</tbody>
</table>


*Traffic Impact Study for Crossroads Apartments in the County of Sonoma*

*July 28, 2010*
Traffic Operation Standards

Based on the most recent criteria published by the County of Sonoma, the project would have a significant traffic impact if it results in any of the following conditions.

1. On-site roads and frontage improvements: Proposed on-site circulation and street frontage would not meet the County’s minimum standards for roadway or driveway design, or potentially result in safety hazards, as determined by the County in consultation with a registered traffic engineer.
2. Parking: Proposed on-site parking supply would not be adequate to accommodate parking demand.
3. Emergency Access: The project site would have inadequate emergency access.
4. Alternative Transportation: The project provides inadequate facilities for alternative transportation modes (e.g., bus turnouts, bicycle racks, pedestrian pathways) and/or the project creates potential conflicts with adopted policies, plans, or programs supporting alternative transportation.
5. Road Hazards: Hazards are increased due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment, heavy pedestrian or truck traffic).
6. Vehicle Queues: The addition of project traffic causes the 95th percentile queue length to exceed roadway turn lane storage capacity.
7. Signal Warrants: The addition of the project’s vehicle or pedestrian traffic causes an intersection to meet or exceed Caltrans signal warrant criteria.
8. Turn Lanes: The addition of project traffic causes an intersection to meet or exceed criteria for provision of a right or left turn lane on an intersection approach.
9. Sight Lines: The project constructs an unsignalized intersection (including driveways) or adds traffic to an existing unsignalized intersection approach that does not have adequate sight lines based upon Caltrans criteria for state highway intersections and County criteria for County roadway intersections.
10. County Intersections: The County Level of Service standard for intersections is Level of Service D. The project would have a significant traffic impact if the project’s traffic would cause an intersection currently operating at an acceptable level of service (LOS D or better) to operate below the standard (LOS E or F).

If the intersection currently operates or is projected to operate below the County standard (at LOS E or F), the project’s impact is significant and cumulatively considerable if it causes the delay for any critical movement to increase by five seconds or more. The delay will be determined by comparing intersection operation with and without the project’s traffic for both the existing baseline and projected future conditions. These criteria apply to all controlled or uncontrolled intersections with projected traffic volumes over 30 vehicles per hour per approach or per exclusive left turn movement.

11. County Roadway Operation: The Level of Service Standard for County roadway operations is to maintain a Level of Service C, though there are exceptions to this standard for specific roadway segments indicated in Figure CT-3. Policy CT-3a notes, “In cases where a roadway segment is designated as LOS F on Figure CT-3, a PM peak volume to capacity ratio of 1.2 is the acceptable LOS, with the exception of [specified] road segments.” The project would have a significant traffic impact if the project’s traffic would cause a road currently operating at an acceptable level of service to operate at an unacceptable level.

The City of Santa Rosa’s adopted Level of Service (LOS) Standard as contained in Santa Rosa 2020: General Plan was applied to the intersection of Burbank Avenue/Hearn Avenue. Standard TD-1 states that the City will try to maintain a Level of Service (LOS) D or better along all major corridors. Exceptions to meeting this standard are allowed.
- Within downtown;
- Where attainment would result in significant environmental degradation;
- Where topography or environmental impacts makes the improvement impossible; or
- Where attainment would ensure loss of an area's unique character.

Although the City's standard does not specify criteria for intersections, for the purposes of this study a minimum operation of LOS D was assumed for all signalized intersections. The LOS D standard was also applied to unsignalized intersections based on overall average delay. Mitigating measures such as additional lanes or changes to phasing were evaluated if operation dropped below these standards.
Baseline Conditions

Description of Study Area

The proposed project is located at 1980 and 2010 Burbank Avenue in Roseland, an unincorporated pocket of Sonoma County within the City of Santa Rosa. Currently, Liana Drive ends just west of Biwana Drive, but this project would extend Liana Drive through to intersect with Burbank Avenue, providing a through connection between West Avenue and Burbank Avenue. The study area for this analysis consisted of the following one future and five existing intersections within the vicinity of the project site:

1. Burbank Avenue/Sebastopol Road
2. Burbank Avenue/Liana Drive (future intersection)
3. Biwana Drive/Liana Drive
4. West Avenue/Liana Drive
5. Burbank Avenue/Hearn Avenue
6. Hearn Avenue/West Avenue

Study Intersections

Sebastopol Road/Burbank Avenue will soon be signalized to replace the existing side-street stop-controlled configuration. Since the traffic signal is currently under construction and will be complete before construction of the proposed project, this intersection was analyzed as if signalized under baseline conditions. The tee intersection has a driveway on the northern leg acting as a fourth approach; however, the County has an agreement with the property owner that this driveway will be used for one-way inbound traffic only.

Burbank Avenue/Liana Drive will be the primary access point for the project site. This intersection currently does not exist, but would be built with the extension of Liana Drive as part of the proposed project. This tee intersection is proposed to be side-street stop controlled.

Biwana Drive/Liana Drive is a tee-intersection with a stop sign on the southbound approach; however, the western leg currently provides access to only three single-family residences, so the dominate movements are between the eastern and northern legs of the intersection. A fence on the northwest corner of this intersection restricts sight distance to the west. North of this intersection Biwana Drive provides primary access to the Roseland Elementary School District administrative offices as well as secondary access to the Roseland Accelerated Middle School and Sheppard Accelerated Elementary School.

West Avenue/Liana Drive is a tee-intersection that is stop controlled on the Liana Drive approach. With the extension of Liana Drive, this intersection will provide project site access to West Avenue. Currently, Liana Drive connects to Biwana Drive, but both streets currently dead-end, requiring all drivers to pass through this intersection.

Burbank Avenue/Hearn Avenue is a four-way intersection; the southern leg is the entrance to the Southwest Community Park. Only the southbound Burbank Avenue approach is currently stop-controlled, so the addition of a stop sign on the park driveway approach to Hearn Avenue is recommended. Sidewalk is provided only along the southern side, but a crosswalk is provided on the westbound approach.

Hearn Avenue/West Avenue is a tee-intersection that is stop-controlled on the West Avenue approach. There are no marked crosswalks, but pedestrian ramps are provided on all corners.
Burbank Avenue near the project site is a two-lane road that is approximately 26 feet wide with a dashed yellow centerline. There are no sidewalks and no shoulders separating the road from the drainage ditches located immediately adjacent to the street along both sides. Due to the lack of shoulders, on street parking is not possible. The speed limit along the segment is posted at 25 miles per hour (mph).

Sheppard Accelerated Elementary School and the Roseland Accelerated Middle School are near the project site on West Avenue north of Liana Drive. While access to the schools is also provided on Biwana Drive, during field observations it was observed that the majority of school related pick-up and drop-off activity occurred on West Avenue. Adjacent to these schools are the Roseland School District Offices and the Apples and Bananas Preschool, both of which take access from Biwana Drive.

The locations of the study intersections and the existing lane configurations and controls are shown in Figure 1.

**Baseline Conditions**

The Baseline Conditions scenario provides an evaluation of current operation based on existing traffic volumes collected during the a.m. and p.m. peak periods while school was in session as well as the configurations and controls that are currently present or will be by the time the project is occupied. This condition does not include project-generated traffic volumes. Existing traffic volumes are shown on Figure 2.

**Intersection Levels of Service**

Under Baseline conditions, all of the existing study intersections are operating acceptably at LOS C or better. The intersection level of service calculations are summarized in Table 2, and copies are provided in Appendix A.
Traffic Impact Study for Crossroads Apartments
County of Sonoma

Existing (Baseline) Traffic Volumes
Table 2
Summary of Baseline Peak Hour Intersection Level of Service Calculations

<table>
<thead>
<tr>
<th>Study Intersection Approach</th>
<th>Baseline Conditions</th>
<th>Baseline plus Project</th>
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<tbody>
<tr>
<td></td>
<td>AM Peak</td>
<td>PM Peak</td>
</tr>
<tr>
<td></td>
<td>Delay</td>
<td>LOS</td>
</tr>
<tr>
<td>1. Burbank Ave/Sebastopol Rd</td>
<td>14.6</td>
<td>B</td>
</tr>
<tr>
<td>2. Burbank Ave/Liana Dr</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Westbound Approach</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Biwana Dr/Liana Dr</td>
<td>4.5</td>
<td>A</td>
</tr>
<tr>
<td>Southbound Approach</td>
<td>9.4</td>
<td>A</td>
</tr>
<tr>
<td>4. West Ave/Liana Dr</td>
<td>3.0</td>
<td>A</td>
</tr>
<tr>
<td>Eastbound Approach</td>
<td>20.0</td>
<td>C</td>
</tr>
<tr>
<td>5. Burbank Ave/Hearn Ave</td>
<td>1.8</td>
<td>A</td>
</tr>
<tr>
<td>Southbound Approach</td>
<td>12.6</td>
<td>B</td>
</tr>
<tr>
<td>Northbound Approach</td>
<td>10.4</td>
<td>B</td>
</tr>
<tr>
<td>6. Hearn Ave/West Ave</td>
<td>2.9</td>
<td>A</td>
</tr>
<tr>
<td>Southbound Approach</td>
<td>15.6</td>
<td>C</td>
</tr>
</tbody>
</table>

Notes:  Delay is measured in average seconds per vehicle; LOS = Level of Service  Results for minor approaches to two-way stop-controlled intersections are indicated in *italics*

Collision History

The collision history for the study area was reviewed to determine any trends or patterns that may indicate a safety issue. Collision rates were calculated based on the most recent records available from the California Highway Patrol and published in their Statewide Integrated Traffic Records System (SWITRS) reports, which resulted in a five-year study period of July 2004 through June 2009. The calculated collision rates for the study intersections were compared to average collision rates for similar facilities statewide as indicated in 2007 Accident Data on California State Highways, California Department of Transportation. Three of the study intersections experienced a calculated collision rate that is lower than the statewide average for similar facilities. The intersections of Burbank Avenue/Sebastopol Road and Burbank Avenue/Hearn Avenue had higher than average collision rates.

Currently a traffic signal is being constructed at Burbank Avenue/Sebastopol Road should help reduce collisions in the future. Further examination of the collision data for the intersection Burbank Avenue/Hearn Avenue revealed that the majority of collisions involved right-of-way violations, including both broadsides and left-turns, so consideration should be given to modifying the intersection control through signalization.

The collision rates are summarized in Table 3, and copies of the collision rate calculations are provided in Appendix B.
Executive Summary

The focus of this evaluation was to identify the potential traffic impacts associated with a 79-unit multi-family residential complex at 1980 – 2010 Burbank Avenue in unincorporated County of Sonoma. The project site is located in a County island within the City of Santa Rosa in the Roseland neighborhood. Vehicle access would be provided on Liana Drive which currently ends west of Biwana Drive, but would extend to Burbank Avenue with the completion of this project. This connection would provide access to both West Avenue and Burbank Avenue.

The project is expected to generate approximately 602 daily new vehicle trips, of which 42 new trips would occur during the a.m. peak hour and 61 new trips would occur during the p.m. peak hour. Additionally, the project has a potential for generating new pedestrian, bicycle and transit-oriented trips.

Vehicle conditions were evaluated for a.m. and p.m. peak hours under Baseline, Baseline plus Project, Future and Future plus Project conditions for the following six intersections:

1. Burbank Avenue/Sebastopol Road
2. Burbank Avenue/Liana Drive (future intersection)
3. Biwana Drive/Liana Drive
4. West Avenue/Liana Drive
5. Burbank Avenue/Hearn Avenue
6. Hearn Avenue/West Avenue

All study intersections are located in unincorporated County of Sonoma except for the intersection of Burbank Avenue/Hearn Avenue which is located within the City of Santa Rosa.

It was found that all study intersections currently operate acceptably and would be expected to continue to do so with the addition of project-generated trips. Under future conditions, the intersections of Burbank Avenue/Hearn Avenue and Hearn Avenue/West Avenue are expected to operate unacceptably with conditions worsening with the addition of project-generated traffic. To mitigate the unacceptable operations at Burbank Avenue/Hearn Avenue, it is recommended that the County of Sonoma coordinate with the City of Santa Rosa to collect the appropriate Development Impact Fees that could be used towards signalization of this intersection. No mitigations are recommended for the intersection for Hearn Avenue/West Avenue because the project would add less than five seconds of average delays which is below the threshold for significance as defined by the County of Sonoma.

Currently, Liana Drive terminates west of Biwana Drive resulting in very little east-west through traffic meaning that drivers turning at this intersection are used to making the turn relatively unopposed. With the extension of Liana Drive, the volume of east-west traffic would increase creating more conflicting traffic for drivers making turning movements at the intersection of Liana Drive/Biwana Drive. To improve safety at this intersection it is recommended that the intersection be converted to an all-way stop control.

Sidewalks would be provided along the project frontage which would connect to adjacent sidewalk along Liana Drive and would provide continuous sidewalk connections to the nearby Sheppard Accelerated Elementary School, Roseland Accelerated Middle School, Apples and Bananas Preschool and transit service. Beyond the project frontage, sidewalks would not be provided along Burbank Avenue. Currently, the Roseland Creek Elementary School is under construction to the north of the project site, so it is recommended that the Burbank Housing Development Corporation coordinate with the Roseland School District to try to provide continuous pedestrian facilities between the proposed project and the school. Existing bicycle and transit facilities are expected to adequately serve the proposed project.
Table 3
Collision Rates at the Study Intersections

<table>
<thead>
<tr>
<th>Study Intersection</th>
<th>Number of Collisions (July 2004-June 2009)</th>
<th>Calculated Collision Rate (c/mve)</th>
<th>Statewide Average Collision Rate (c/mve)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Burbank Ave/Sebastopol Rd</td>
<td>11</td>
<td>0.56</td>
<td>0.19</td>
</tr>
<tr>
<td>3. Biwana Dr/Liana Dr</td>
<td>0</td>
<td>0.00</td>
<td>0.19</td>
</tr>
<tr>
<td>4. West Ave/Liana Dr</td>
<td>0</td>
<td>0.00</td>
<td>0.19</td>
</tr>
<tr>
<td>5. Burbank Ave/Hearn Ave</td>
<td>9</td>
<td>0.40</td>
<td>0.22</td>
</tr>
<tr>
<td>6. Hearn Ave/West Ave</td>
<td>1</td>
<td>0.05</td>
<td>0.14</td>
</tr>
</tbody>
</table>

Note: c/mve = collisions per million vehicles entering
Rates exceeding the Statewide average indicated in bold text

In addition to analysis of collisions at the study intersections, collisions occurring along the segment of Burbank Avenue from Hearn Avenue to Sebastopol Road were studied. During the same five-year time period, Burbank Avenue had nine reported collisions, which results in a calculated rate of 1.90 collisions per million vehicle miles traveled (c/mvm). This is less than the statewide average of 2.95 c/mvm for similar facilities.

Alternative Modes of Transportation

Pedestrian

Pedestrian facilities are not currently provided along Burbank Avenue; this is consistent with the rural, low-density nature of the surrounding land use. Adjacent to the proposed project site, Liana Drive and West Avenue are both improved with sidewalks.

Bicycle

Class II bicycle lanes are provided on both Sebastopol Road and Hearn Avenue.

Transit

Although located in unincorporated Sonoma County, the area surrounding the project site is served by Santa Rosa City Bus fixed route service. The bus stops nearest the project site are located on West Avenue near Liana Drive, which is about 1,500 feet from the center of project site. These stops are served by Route 12 – Roseland. Additional transit service is provided at the Southwest Community Park at the intersection of Hearn Avenue/Burbank Avenue, which is approximately 2,000 feet from the project site and is served by Route 12 – Roseland, Route 15 – Stony Point Road and Route 19 – South City Circulator. All transit routes run on approximately 30-minute headways on weekdays and one-hour headways on weekends; Route 15 does not provide Sunday service.

Future Conditions

Segment volumes for the horizon year of 2035 were obtained from the Sonoma County Transportation Agency (SCTA) gravity demand model and translated to turning movement volumes at each of the study intersections using a combination of the “Furness” method and factoring, depending on how the model was configured at each intersection. The Furness method is an iterative process that employs existing
turn movement data, existing link volumes and future link volumes to project likely turning future movement volumes at intersections. Future traffic volumes are shown on Figure 3.

Under the anticipated Future volumes, all of the study intersections are expected to operate acceptably except for the intersections of Burbank Avenue/Hearn Avenue and Hearn Avenue/West Avenue, both of which are expected to operate at LOS F on controlled approaches. Burbank Avenue/Hearn Avenue is expected to operate unacceptably overall at LOS F during the p.m. peak hour. Future operating conditions are summarized in Table 4.

<table>
<thead>
<tr>
<th>Study Intersection Approach</th>
<th>Future Conditions AM Peak</th>
<th>Future Conditions PM Peak</th>
<th>Future plus Project AM Peak</th>
<th>Future plus Project PM Peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Burbank Ave/Sebastopol Rd</td>
<td>15.6 B</td>
<td>20.0 C</td>
<td>16.2 B</td>
<td>21.4 C</td>
</tr>
<tr>
<td>2. Burbank Ave/Liana Dr</td>
<td>n/a</td>
<td>n/a</td>
<td>1.3 A</td>
<td>0.6 A</td>
</tr>
<tr>
<td>Westbound Approach</td>
<td></td>
<td>n/a</td>
<td>11.4 B</td>
<td>12.3 B</td>
</tr>
<tr>
<td>3. Biwana Dr/Liana Dr</td>
<td>4.7 A</td>
<td>5.1 A</td>
<td>5.3 A</td>
<td>5.0 A</td>
</tr>
<tr>
<td>Southbound Approach</td>
<td>9.8 A</td>
<td>9.0 A</td>
<td>10.1 B</td>
<td>9.2 A</td>
</tr>
<tr>
<td>4. West Ave/Liana Dr</td>
<td>3.1 A</td>
<td>1.6 A</td>
<td>2.5 A</td>
<td>1.6 A</td>
</tr>
<tr>
<td>Eastbound Approach</td>
<td>23.1 C</td>
<td>13.2 B</td>
<td>21.6 C</td>
<td>13.3 B</td>
</tr>
<tr>
<td>5. Burbank Ave/Hearn Ave</td>
<td>11.5 B</td>
<td>58.5 F</td>
<td>18.8 B</td>
<td>67.3 F</td>
</tr>
<tr>
<td>Southbound Approach</td>
<td>53.5 F</td>
<td>** F</td>
<td>82.1 F</td>
<td>** F</td>
</tr>
<tr>
<td>Northbound Approach</td>
<td>12.4 B</td>
<td>25.4 D</td>
<td>12.6 B</td>
<td>37.8 D</td>
</tr>
<tr>
<td>Traffic Signal Mitigation</td>
<td></td>
<td></td>
<td>15.2 B</td>
<td>15.6 B</td>
</tr>
<tr>
<td>6. Hearn Ave/West Ave</td>
<td>27.1 D</td>
<td>15.1 C</td>
<td>21.9 D</td>
<td>15.3 B</td>
</tr>
<tr>
<td>Southbound Approach</td>
<td>81.9 F</td>
<td>79.2 F</td>
<td>67.5 F</td>
<td>82.1 F</td>
</tr>
</tbody>
</table>

Notes: Delay is measured in average seconds of delay per vehicle, LOS = Level of Service
** = Delay greater than 120 seconds, Unacceptable operations are indicated in Bold
Plus Project Conditions

Project Description

Burbank Housing Development Corporation is proposing a 79-unit multi-family residential development at 1980 – 2010 Burbank Avenue. The site is located in an unincorporated pocket of Sonoma County between Sebastopol Road and Hearn Avenue and in the southwest quadrant of the City of Santa Rosa. The site is currently vacant, with low-density residential uses to the north, west and south and an older single-family residential subdivision and Shepherd Elementary School to the east. A new school, Roseland Creek Elementary School, is currently under construction about one-quarter of a mile north of the project site. The proposed project site plan is shown in Figure 4.

Site Access and Circulation

The project would have direct access to Burbank Avenue and would also extend Liana Drive to provide access to West Avenue; all project driveways would be located on Liana Drive. Since the Liana Drive extension does not exist, it is not possible to fully evaluate sight distance at the project access points. Based upon a review of the plans as well as existing site characteristics, the westerly driveway and Valley Oak Drive connections are expected to have adequate sight distance in both directions. The existing fence on the adjacent property to the east on Liana Drive may limit sight lines from the easternmost driveway, though this cannot be ascertained from the information provided. Care should be taken in the placement of signage and vegetation to ensure that adequate sight distance is available at the project driveways and the new intersections of Burbank Avenue/Liana Drive and Liana Drive/Valley Oak Drive.

As part of this project, Liana Drive will be extended to connect with Burbank Avenue, resulting in the potential for existing traffic to divert to Burbank Avenue via the extension of Liana Drive. These trips to/from Liana Drive to western Hearn Avenue via West Avenue could be diverted to Burbank Avenue instead as this would result in an overall shorter travel distance. The volume of trips that could potentially be diverted was estimated based on the existing volumes and turning movement patterns. For analysis purposes, it was assumed that 25 trips would be diverted during the a.m. peak hour and five trips during the p.m. peak hour. These diverted trips would typically be neighborhood trips with either an origin or intermediate destination at the schools.

Since Liana Drive currently terminates just west of its intersection with Biwana Drive drivers making turning movements from Biwana Drive at this intersection are used to making their turn without needing to check for oncoming vehicles approaching from the west. Given the current conditions and in light of the fence on the northwest corner that restricts sight distance, it is recommended that this intersection be converted to all-way stop controls when Liana Drive is extended.

Impact: Potential safety issue associated with adding eastbound through traffic on Liana Drive at Biwana Drive where drivers are currently used to proceeding without checking for oncoming through traffic.

Recommendation: Convert the intersection to all-way stop controls.

Trip Generation

The anticipated trip generation for the proposed project was estimated using standard rates published by the Institute of Transportation Engineers (ITE) in Trip Generation, 8th Edition. The trip generation potential of the project as planned was developed using the published standard formula rates for Apartments (Land Use #220), as this description most closely matches the proposed project.
Based on application of these assumptions, the proposed project is expected to generate an average of 602 trips per day, including 42 a.m. peak hour trips and 61 trips during the p.m. peak hour. These results are summarized in the Table 5 and are shown on Figure 5.

Table 5
Trip Generation Summary

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Units</th>
<th>Daily Rate</th>
<th>Daily Trips</th>
<th>AM Peak Hour Rate</th>
<th>AM Trips</th>
<th>PM Peak Hour Rate</th>
<th>PM Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apartment</td>
<td>79 du</td>
<td>7.62</td>
<td>602</td>
<td>0.53</td>
<td>42</td>
<td>0.77</td>
<td>61</td>
</tr>
<tr>
<td>Note: du = dwelling unit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Trip Distribution

The pattern used to allocate new project trips to the street network was determined by reviewing employment patterns for residents of Santa Rosa as indicated by the 2000 Census. The applied distribution assumptions as reviewed by County and City staff and resulting trips are shown in Table 6.

Table 6
Trip Distribution Assumptions

<table>
<thead>
<tr>
<th>Route</th>
<th>Percent</th>
<th>Daily Trips</th>
<th>AM Trips</th>
<th>PM Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burbank Ave to Hearn Ave east</td>
<td>26%</td>
<td>157</td>
<td>11</td>
<td>16</td>
</tr>
<tr>
<td>Burbank Ave to Hearn Ave west</td>
<td>9%</td>
<td>54</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Burbank Ave to Sebastopol Rd east</td>
<td>23%</td>
<td>139</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>Burbank Ave to Sebastopol Rd west</td>
<td>21%</td>
<td>126</td>
<td>9</td>
<td>13</td>
</tr>
<tr>
<td>West Ave to Hearn Ave east</td>
<td>12%</td>
<td>72</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>West Ave to Hearn Ave west</td>
<td>3%</td>
<td>18</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>West Ave to Sebastopol Rd east</td>
<td>6%</td>
<td>36</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
<td>602</td>
<td>42</td>
<td>61</td>
</tr>
</tbody>
</table>

Intersection Operation

Baseline plus Project Conditions

Upon the addition of project-related traffic to the existing volumes, the study intersections are expected to operate acceptably at LOS C or better. The intersections of West Avenue/Liana Drive and West Avenue/Hearn Avenue expected to experience improved operations due to the diversion of traffic associated with the extension of Liana Drive. These results are summarized in Table 2.

Impact: The study intersections are expected to continue operating acceptably at the same levels of service upon the addition of project-generated traffic.

Recommendation: The project's impact is less-than-significant, so no improvements are needed.
Traffic Impact Study for Crossroads Apartments
County of Sonoma

Figure 5
Project Traffic Volumes
Future plus Project Conditions

Upon the addition of project-generated traffic to the anticipated Future volumes, four of the six study intersections are expected to operate acceptably. The intersection of Burbank Avenue/Hearn Avenue, which is located within the City of Santa Rosa, is expected to operate at LOS F during the p.m. peak hour. If a traffic signal were installed at this intersection, it would be expected to operate acceptably at LOS B. The intersection of Hearn Avenue/West Avenue is expected to operate at LOS F on the controlled approaches; however, this intersection is expected to operate unacceptably without project added volumes and the project results in less than five seconds of added average delay; therefore, the impact is not significant under the County’s criterion. The Future plus Project operating conditions are summarized in Table 4.

Operation at the intersections of Burbank Avenue/Liana Drive and Biwana Drive/Liana Drive is expected to improve under future plus project volumes due to a larger increase in traffic on uncontrolled approaches compared to traffic on the controlled approaches.

**Impact:** The intersection of Hearn Avenue/West Avenue is projected to operate unacceptably under future plus project conditions; however, the project is expected to add less than five seconds of average delay to the intersection.

**Recommendation:** This constitutes a less-than-significant impact as defined by the County of Sonoma so no mitigating measures are recommended.

**Impact:** The intersection of Burbank Avenue/Hearn Avenue is projected to operate unacceptably under future plus project conditions. This is cumulatively significant.

**Recommendation:** It is recommended that the County of Sonoma coordinate with the City of Santa Rosa to collect the applicable City Development Impact Fees that could be used towards the cost of signalizing this intersection.

**Alternative Modes of Transportation**

**Pedestrian**

The proposed project would include installation of sidewalks along the project frontage that would connect to existing sidewalk on Liana Drive. This provides sidewalk for the entire route to the nearby Sheppard Accelerated Elementary School and Roseland Accelerated Middle School. Since sidewalk currently does not exist on Burbank Avenue near the project site, newly added sidewalk on Burbank Avenue would end at the edge of the project frontage. The proposed project does not include a pedestrian connection to the Roseland Creek Elementary School currently under construction about one-quarter of a mile north of the project site.

**Impact:** The proposed project does not include a pedestrian connection to the Roseland Creek Elementary School.

**Recommendation:** It is recommended that the Burbank Housing Development Corporation coordinate with the Roseland School District to provide safe access between the site and the Roseland Creek Elementary School. This could be accomplished through installation of a paved or other all-weather surface pathway to serve pedestrian trips if there is sufficient right-of-way available, or initiation of busing if there is not.
Bicycle

The proposed project would not add any new bicycle facilities. Because of the low-volume, residential nature of Burbank Avenue, West Avenue and Liana Drive, bicyclists would be able to ride with traffic. The existing bicycle lanes on Hearn Avenue and Sebastopol Road would provide regional connections.

Transit

Existing transit service is available within 2,000 feet of the project site, or approximately a ten-minute walk for the average person to the transit stop located on West Avenue, which is the preferred location considering that sidewalks will be provided along the entire route. Transit service is available from the Southwest Community Park, which also would be about a ten-minute walk from the project site; however, sidewalks would not be provided along this route making it less desirable. It is expected that this existing service will be adequate for the proposed project.
Conclusions and Recommendations

Conclusions

- The project is expected to generate approximately 602 new trips daily, of which 42 new trips would occur during the a.m. peak hour and 61 new trips would occur during the p.m. peak hour.

- Under baseline conditions, all of the study intersections currently operate acceptably; they are expected to continue to operate acceptably with the addition of project-generated traffic.

- Under future conditions, all of the study intersections are expected to operate acceptably except for Burbank Avenue/Hearn Avenue and Hearn Avenue/West Avenue and these conditions are expected to be unchanged with the addition of project-generated trips.

- The intersection of Burbank Avenue/Hearn Avenue would be expected to operate acceptably if a traffic signal were installed. This intersection is located within the jurisdiction of the City of Santa Rosa.

- The proposed project would increase average delay by less than five seconds at the intersection of Hearn Avenue/West Avenue, resulting in a less-than-significant impact based on County of Sonoma criterion.

- The sidewalks proposed as part of the project would provide a connection to the Roseland Accelerated Middle School and Sheppard Accelerated Elementary School as well as nearby transit stops, but would not connect to the Roseland Creek Elementary School which is currently under construction.

- The existing bicycle facilities are expected to adequately serve the proposed project.

- Existing transit service is located within approximately a ten-minute walk of the project site, so is expected to adequately serve the proposed project.

- The proposed project would extend Liana Drive to Burbank Avenue which creates a potential for some drivers currently using West Avenue to divert to Burbank Avenue.

- With the extension of Liana Drive, drivers turning at Liana Drive/Biwana Drive will be more likely to encounter traffic coming from the west, resulting in conflicting movements where a turn is currently relatively unopposed.

Recommendations

- To help fund traffic signal improvements at the intersection of Burbank Avenue/Hearn Avenue, it is recommended that the County of Sonoma coordinate with the City of Santa Rosa to collect the appropriate Development Impact Fees for this project.

- It is recommended that the Burbank Housing Development Corporation coordinate with the Roseland School District to provide access between the proposed project site and the Roseland Creek Elementary School which is currently under construction. This could be in the form of pedestrian facilities or implementation of busing.

- To address potential safety issues at the intersection of Liana Drive/Biwana Drive it is recommended that this intersection be converted to all-way stop controls.
Study Participants and References

Study Participants

Principal in Charge: Dalene J. Whitlock, PE, PTOE
Assistant Engineer: Tony Henderson, EIT
Technician/Graphics: Deborah J. Mizell
Editing/Formatting: Angela McCoy

References

2007 Collision Data on California State Highways (road miles, travel, collisions, collision rates), California Department of Transportation, 2007
Highway Capacity Manual, Transportation Research Board, 2000
Santa Rosa 2020: General Plan, City of Santa Rosa, 2002
Santa Rosa CityBus, http://ci.santa-rosa.ca.us/departments/transit/CityBus/maps_schedules/
Sonoma County General Plan 2020, County of Sonoma, 2008
United States Census 2000, United States Census Bureau, 2000

SOX391
### AM Baseline

Mon Jun 21, 2010 17:42:58

#### Traffic Impact Study for Crossroads Apartments

**County of Sonoma**

---

**2000 HCM Operations Method (Base Volume Alternative)**

**Level of Service Computation Report**

**Intersection #1 Burbank Ave/Sebastopol Rd**

---

**Cycle (sec):** 100

**Critical Vol./Cap. (X):** 0.048

**Lost Time (sec):** 6 (Y=X+4.0 sec)

**Average Delay (sec/veh):** 14.6

**Optimal Cycle:** 27

---

**Street Name:** Burbank Ave

**Approach:** North Bound

**Movement:** L - T - R

---

**Volume Module:**

<table>
<thead>
<tr>
<th>Lane</th>
<th>Vol.</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
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<tbody>
<tr>
<td>Total</td>
<td>540</td>
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<td>30</td>
<td>51</td>
<td>405</td>
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<td>0</td>
<td>0</td>
<td>0</td>
</tr>
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**Saturation Flow Module:**

<table>
<thead>
<tr>
<th>Lane</th>
<th>1900</th>
<th>1900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>1900</td>
<td>1900</td>
</tr>
</tbody>
</table>

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**Capacity Analysis Module:**

| Vol/Sat | 0.15 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.03 | 0.26 | 0.00 |

---

**Note:** Queue reported is the number of cars per lane.

---

**PM Baseline**

Mon Jun 21, 2010 17:43:02

#### Traffic Impact Study for Crossroads Apartments

**County of Sonoma**

---

**2000 HCM Operations Method (Base Volume Alternative)**

**Level of Service Computation Report**

**Intersection #1 Burbank Ave/Sebastopol Rd**

---

**Cycle (sec):** 100

**Critical Vol./Cap. (X):** 0.534

**Lost Time (sec):** 6 (Y=X+4.0 sec)

**Average Delay (sec/veh):** 9.3

**Optimal Cycle:** 27

---

**Street Name:** Burbank Ave

**Approach:** North Bound

**Movement:** L - T - R

---

**Volume Module:**

<table>
<thead>
<tr>
<th>Lane</th>
<th>Vol.</th>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>530</td>
<td>53</td>
<td>53</td>
<td>53</td>
<td>53</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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**Saturation Flow Module:**

<table>
<thead>
<tr>
<th>Lane</th>
<th>1900</th>
<th>1900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>1900</td>
<td>1900</td>
</tr>
</tbody>
</table>

---

**Capacity Analysis Module:**

| Vol/Sat | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.37 | 0.06 | 0.33 | 0.00 |

---

**Note:** Queue reported is the number of cars per lane.

---
### Level of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

#### Intersection #3 Biwana Dr/Llana Dr

**Average Delay (sec/veh):** 4.5  
Worst Case Level Of Service: A (9.4)

<table>
<thead>
<tr>
<th>Street Name</th>
<th>North Bound</th>
<th>South Bound</th>
<th>East Bound</th>
<th>West Bound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biwana Dr</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
</tr>
<tr>
<td>Llana Dr</td>
<td>Stop Sign</td>
<td>Stop Sign</td>
<td>Uncontrolled</td>
<td>Uncontrolled</td>
</tr>
</tbody>
</table>

**Volume Module:**

- **Base Vol:** 0 0 0 116 0 0 2 0 0 1 125
- **Growth Adj:** 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
- **Initial Bse:** 0 0 0 0 116 0 0 2 0 0 1 125
- **User Adj:** 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
- **PHF Adj:** 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
- **PHF Volume:** 0 0 0 126 0 0 2 0 0 1 136
- **Reduct Vol:** 0 0 0 0 0 0 0 0 0 0 0
- **Final Volume:** 0 0 0 126 0 0 2 0 0 1 136

**Critical Gap Module:**

- **Critical Gap:** 6.3 6.3 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2
- **FollowUpTime:** 3.5 4.0 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3

**Capacity Module:**

- **Potent Cap.:** 938 823 938 823 938 823 938 823 938 823 938
- **Move Cap.:** 938 823 1000 938 823 1000 938 823 1000 938 823
- **Volume/Cap.:** 0.43 0.43 0.50 0.43 0.43 0.50 0.43 0.43 0.50 0.43 0.50

**Level Of Service Module:**

- **2Way5Traffic:** XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
- **Control Delay:** XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX
- **LOS by Move:**
  - **Movement:** LT - LTR - RT LT - LTR - RT LT - LTR - RT LT - LTR - RT
  - **Shared Cap.:** 938 823 938 823 938 823 938 823 938 823 938
  - **Shared Queue:** 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
  - **Shared LOS:** 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4
  - **Approach Del.:** 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4

Note: Queue reported is the number of cars per lane.
AM Baseline  
Mon Jun 21, 2010 17:42:58  
Page 5-1

Traffic Impact Study for Crossroads Apartments  
County of Sonoma

Level of Service Computation Report  
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #4 West Ave/Liana Dr  

Average Delay (sec/veh): 3.0  
Worst Case Level of Service: C [20.0]

Street Name: West Ave/Liana Dr  

Approach:  
North Bound  
South Bound  
East Bound  
West Bound

Rights:  
Uncontrolled Include  
Uncontrolled Include  
Stop Sign Include  
Stop Sign Include

Control:  
Lanes:  
0 1 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Base Vol:  
Growth Adj:  
Initial Base:  
User Adj:  
PHF Adj:  
PHF Volume:

Reduct Vol:  
Final Volume:

Volume Module: >> Count Date: 27 May 2010 <= 7:30 - 8:30 am

---

FM Baseline  
Mon Jun 21, 2010 17:43:02  
Page 5-1

Traffic Impact Study for Crossroads Apartments  
County of Sonoma

Level of Service Computation Report  
2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #4 West Ave/Liana Dr  

Average Delay (sec/veh): 1.9  
Worst Case Level of Service: R [11.8]

Street Name: West Ave/Liana Dr  

Approach:  
North Bound  
South Bound  
East Bound  
West Bound

Rights:  
Uncontrolled Include  
Uncontrolled Include  
Stop Sign Include  
Stop Sign Include

Control:  
Lanes:  
0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Base Vol:  
Growth Adj:  
Initial Base:  
User Adj:  
PHF Adj:  
PHF Volume:

Reduct Vol:  
Final Volume:

Volume Module: >> Count Date: 26 May 2010 <= 4:30 - 5:30 pm

---

Note: Queue reported is the number of cars per lane.

Traffic 7.9.0415 (c) 2007 Dowling Assoc. Licensed to M-TRANS, Santa Rosa, CA
Level Of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection #5 Burbank Ave/Hearn Ave

Average Delay (sec/veh): 1.8 Worst Case Level Of Service: B1 12.6

Street Name: Burbank Ave
Approach: North Bound South Bound East Bound West Bound

Movement: L - T - R L - T - R L - T - R L - T - R

Control: Stop Sign Uncontrolled

Right: Include Include Include Include

Lanes: 0 0 1 0 1 0 0 0 1 0 0 0 0

Volume Module: => Count Date: 2 Jun 2010 <= 7:15 - 8:15 am
Base Vol: 0 5 9 10 12 1 25 24 24 19 11 22 8 10
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial Bse: 1 1 1 1 1 1 1 1 1 1 1 1 1
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Volume: 1 0 10 42 1 29 28 317 1 13 265 21
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0
FinalVolume: 1 0 10 42 1 29 28 317 1 13 265 21

Critical Gap Module:

Critical Gp: 7.1 6.5 6.2 7.1 6.5 6.2 4.1 xxxxx xxxxx 4.1 xxxxx xxxxx
FollowUpTimp: 3.5 4.0 3.3 3.5 4.0 3.3 2.2 xxxxx xxxxx 2.2 xxxxx xxxxx

Capacity Module:

Conflict Vol: 689 685 318 679 675 275 286 xxxxx xxxxx 318 xxxxx xxxxx
Poten Cap.: 362 373 728 368 378 758 1288 xxxxx xxxxx 1252 xxxxx xxxxx
Move Cap.: 340 362 728 356 366 758 1288 xxxxx xxxxx 1252 xxxxx xxxxx
Total Cap.: 486 447 xxxxx xxxxx 458 452 xxxxx xxxxx 1252 xxxxx xxxxx
Volume/Cap: 0.00 0.00 0.41 0.02 0.00 0.01 0.00 xxxxx xxxxx 0.02 xxxxx xxxxx

Lose of Service Module:

Lose by Movement: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 xxxxx xxxxx 0.00 xxxxx xxxxx

Approach Lose:

Control Del: 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9
LOG by Move: A A A A A A A A A A A A A

Movement: LT - LTR - RT LT - LTR - RT LT - LTR - RT

Shared Cap.: xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx 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## AM Baseline

### Traffic Impact Study for Crossroads Apartments
County of Sonoma

### Level of Service Computation Report

#### Intersection #6 Hearn Ave/West Ave

<table>
<thead>
<tr>
<th>Movement</th>
<th>L - T - R</th>
<th>L - T - R</th>
<th>L - T - R</th>
<th>L - T - R</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Ave</td>
<td>West Ave</td>
<td>South</td>
<td>East</td>
<td>West</td>
</tr>
<tr>
<td>Control</td>
<td>Stop Sign</td>
<td>Stop Sign</td>
<td>Uncontrolled</td>
<td>Uncontrolled</td>
</tr>
<tr>
<td>Rights</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
</tr>
<tr>
<td>Lanes</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
</tr>
</tbody>
</table>

### Volume Module

<table>
<thead>
<tr>
<th>&gt;&gt;&gt; Count Date: 26 May 2010</th>
<th>7:45 - 8:45 am</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Vol: 0 0 0 0 51 0 91</td>
<td>72 369 0 0 327 57</td>
</tr>
<tr>
<td>Growth Adj: 1.00 1.00 1.00</td>
<td>1.00 1.00 1.00</td>
</tr>
<tr>
<td>Initial Rms: 0 0 0 0 51 0 91</td>
<td>72 369 0 0 327 57</td>
</tr>
<tr>
<td>User Adj: 1.00 1.00 1.00</td>
<td>1.00 1.00 1.00</td>
</tr>
<tr>
<td>PHF Adj: 0.85 0.85 0.85</td>
<td>0.85 0.85 0.85</td>
</tr>
<tr>
<td>PHF Volume: 0 0 0 60 0</td>
<td>0 108 85 437</td>
</tr>
<tr>
<td>Reduction Vol: 0 0 0 0</td>
<td>0 0 0 0</td>
</tr>
<tr>
<td>Final Volume: 0 0 0 60 0</td>
<td>0 108 85 437</td>
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### Capacity Module

<table>
<thead>
<tr>
<th>Critical Qp: 6.4 6.5 6.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>FollowUp: 3.5 4.0 3.3</td>
</tr>
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### Capacity Module

<table>
<thead>
<tr>
<th>Critical Qp: 6.4 6.5 6.2</th>
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<tr>
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<td>3.5 4.0 3.3</td>
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</tr>
</tbody>
</table>

### Level Of Service Module

**Note:** Queue reported is the number of cars per lane.

### PM Baseline

### Traffic Impact Study for Crossroads Apartments
County of Sonoma

### Level of Service Computation Report

#### Intersection #6 Hearn Ave/West Ave

<table>
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<tr>
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<td>Rights</td>
<td>Include</td>
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<td>Include</td>
</tr>
<tr>
<td>Lanes</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
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### Volume Module

<table>
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<th>&gt;&gt;&gt; Count Date: 25 May 2010</th>
<th>4:00 - 5:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Vol: 0 0 0 0 92 0</td>
<td>64 57 385 0 384 79</td>
</tr>
<tr>
<td>Growth Adj: 1.00 1.00 1.00</td>
<td>1.00 1.00 1.00</td>
</tr>
<tr>
<td>Initial Rms: 0 0 0 0 92 0</td>
<td>64 57 385 0 384 79</td>
</tr>
<tr>
<td>User Adj: 1.00 1.00 1.00</td>
<td>1.00 1.00 1.00</td>
</tr>
<tr>
<td>PHF Adj: 0.89 0.89 0.89</td>
<td>0.89 0.89 0.89</td>
</tr>
<tr>
<td>PHF Volume: 0 0 0 92 0</td>
<td>72 64 403 0 432 89</td>
</tr>
<tr>
<td>Reduction Vol: 0 0 0 0</td>
<td>0 0 0 0</td>
</tr>
<tr>
<td>Final Volume: 0 0 0 92 0</td>
<td>72 64 403 0 432 89</td>
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### Capacity Module

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<tr>
<th>Critical Qp: 6.4 6.5 6.2</th>
<th>6.4 6.5 6.2</th>
<th>6.4 6.5 6.2</th>
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<tbody>
<tr>
<td>FollowUp: 3.5 4.0 3.3</td>
<td>3.5 4.0 3.3</td>
<td>3.5 4.0 3.3</td>
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### Capacity Module

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<td>3.5 4.0 3.3</td>
<td>3.5 4.0 3.3</td>
</tr>
</tbody>
</table>

### Level Of Service Module

**Note:** Queue reported is the number of cars per lane.
### AM Peak Hour - Baseline plus Project Conditions

**Traffic Impact Study for Crossroads Apartments**

**County of Sonoma**

<table>
<thead>
<tr>
<th>Zone #</th>
<th>Subzone</th>
<th>Amount</th>
<th>Units</th>
<th>Rate In</th>
<th>Rate Out</th>
<th>Trips In</th>
<th>Trips Out</th>
<th>Total % Of Trips Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>79.00 Apartments</td>
<td>0.11</td>
<td>0.43</td>
<td>9</td>
<td>34</td>
<td>43 100.0</td>
<td></td>
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**Zone 1 Subtotal**

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<tr>
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<th>Total % Of Trips Total</th>
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**TOTAL**

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<tr>
<th></th>
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### PM Peak Hour - Baseline plus Project Conditions

**Traffic Impact Study for Crossroads Apartments**

**County of Sonoma**

<table>
<thead>
<tr>
<th>Zone #</th>
<th>Subzone</th>
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<th>Units</th>
<th>Rate In</th>
<th>Rate Out</th>
<th>Trips In</th>
<th>Trips Out</th>
<th>Total % Of Trips Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>79.00 Apartments</td>
<td>0.50</td>
<td>0.27</td>
<td>40</td>
<td>21</td>
<td>61 100.0</td>
<td></td>
<td></td>
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</tbody>
</table>

**Zone 1 Subtotal**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th>Total % Of Trips Total</th>
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</table>

**TOTAL**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th>Total % Of Trips Total</th>
</tr>
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<p>| | |</p>
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<tr>
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<th></th>
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</thead>
</table>
### AM Peak Hour - Baseline plus Project

**Traffic Impact Study for Crossroads Apartments**

**County of Sonoma**

---

#### Level of Service Computation Report

**2000 HCM Operations Method (Future Volume Alternative)**

---

**Intersection #1 Burbank Ave/Sebastopol Rd**

**Cycle (sec):** 100  
**Critical Vol./Cap.(K):** 0.502  
**Average Delay (sec/veh):** 15.2

**Optimal Cycle:** 27  
**Level Of Service:** B

---

#### Street Name: Burbank Ave

**Approach:**  
- **North Bound:** L T R  
- **South Bound:** L T R  
- **East Bound:** L T R  
- **West Bound:** L T R

**Volume:**  
- **Base Vol:** 54  
- **Growth Adj:** 1.00  
- **Initial Use:** 54  
- **Added Vol:** 7  
- **User Adj:** 1.00  
- **PHF Volume:** 0.81  
- **PHF Value:** 75  
- **Saturation Flow:** 473  

**Capacity:** 0.16  
**Critic Move:** ****  
**Green Cycle:** 0.32  
**Volume/Cap:** 0.50  
**Delay/Veh:** 28.5  
**AdjDel/Veh:** 28.5  
**LOS by Move:** C A C A A B A A A  
**Number of Lanes:** 3

---

**Note:** Queue reported is the number of cars per lane.

---

**PM Peak Hour - Baseline plus Project Conditions**

**Traffic Impact Study for Crossroads Apartments**

**County of Sonoma**

---

#### Level of Service Computation Report

**2000 HCM Operations Method (Future Volume Alternative)**

---

**Intersection #1 Burbank Ave/Sebastopol Rd**

**Cycle (sec):** 100  
**Critical Vol./Cap.(K):** 0.551  
**Average Delay (sec/veh):** 9.5

**Optimal Cycle:** 30  
**Level Of Service:** A

---

**Street Name: Burbank Ave**

**Approach:**  
- **North Bound:** L T R  
- **South Bound:** L T R  
- **East Bound:** L T R  
- **West Bound:** L T R

**Volume:**  
- **Base Vol:** 53  
- **Growth Adj:** 1.00  
- **Initial Use:** 53  
- **Added Vol:** 0  
- **User Adj:** 1.00  
- **PHF Adj:** 0.96  
- **PHF Volume:** 59  
- **Saturation Flow:** 693  

**Capacity:** 0.09  
**Critic Move:** ****  
**Green Cycle:** 0.15  
**Volume/Cap:** 0.55  
**Delay/Veh:** 41.5  
**AdjDel/Veh:** 41.5  
**LOS by Move:** D A A A A A E A A A  
**Number of Lanes:** 3

---

**Note:** Queue reported is the number of cars per lane.
### AM Baseline Plus Project

**Date:** Wed Jun 23, 2010 08:16:25

---

**AM Peak Hour - Baseline plus Project Conditions**

**Traffic Impact Study for Crossroads Apartments**

**County of Sonoma**

---

#### Level Of Service Computation Report

**2000 HCM Unsignalized Method (Future Volume Alternative)**

---

**Intersection #2 Burbank Ave/Liana Dr**

**Average Delay (sec/veh):** 2.3

**Worst Case Level of Service:** A (8.8)

#### Street Name: Burbank Ave

**Approach:**
- North Bound
- South Bound
- East Bound
- West Bound

**Movement:**
- L - T - R
- T - L - R

**Right:**
- Include
- Uncontrolled

**Volume Module:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanes</td>
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</tr>
<tr>
<td>Base Vol.</td>
<td>0 58 0 0 64 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Growth Adj.</td>
<td>1.0 1.0 1.0 0.0 1.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0</td>
</tr>
<tr>
<td>Initial Rea.</td>
<td>0 58 0 0 64 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Added Vol.</td>
<td>0 0 3 4 0 0 0 0 0 0 12 0 15</td>
</tr>
<tr>
<td>Divergence</td>
<td>0 0 25 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Initial Put.</td>
<td>0 58 28 4 64 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>User Adj.</td>
<td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>PHF Adj.</td>
<td>0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92</td>
</tr>
<tr>
<td>PHF Volume</td>
<td>L 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Reduce Vol.</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Final Volume</td>
<td>63 30 10 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

#### Critical Gap Module:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical Gp</td>
<td>4.1 0.000 0.000</td>
</tr>
</tbody>
</table>

#### Capacity Module:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conflict Vol</td>
<td>0.000 0.000 0.000 0.000</td>
</tr>
<tr>
<td>Potent Cap.</td>
<td>1514 1514 1514 1514</td>
</tr>
<tr>
<td>Move Cap.</td>
<td>0.000 0.000 0.000 0.000</td>
</tr>
<tr>
<td>Volume/Cap.</td>
<td>127 127 127 127</td>
</tr>
</tbody>
</table>

#### Level Of Service Module:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2Way5Sthq</td>
<td>0.000 0.000 0.000 0.000</td>
</tr>
<tr>
<td>Control Del</td>
<td>7.4 7.4 7.4 7.4</td>
</tr>
<tr>
<td>LOS by Move</td>
<td>MT - LTR - RT</td>
</tr>
<tr>
<td>Movement</td>
<td>MT - LTR - RT</td>
</tr>
<tr>
<td>Shared LOS</td>
<td>0.000 0.000 0.000 0.000</td>
</tr>
<tr>
<td>Approach Del</td>
<td>9.4 9.4 9.4 9.4</td>
</tr>
</tbody>
</table>

Note: Queue reported is the number of cars per lane.

---

**PM Baseline plus Project**

**Date:** Wed Jun 23, 2010 08:16:32

---

**PM Peak Hour - Baseline plus Project Conditions**

**Traffic Impact Study for Crossroads Apartments**

**County of Sonoma**

---

#### Level Of Service Computation Report

**2000 HCM Unsignalized Method (Future Volume Alternative)**

---

**Intersection #2 Burbank Ave/Liana Dr**

**Average Delay (sec/veh):** 1.2

**Worst Case Level of Service:** A (9.8)

#### Street Name: Burbank Ave

**Approach:**
- North Bound
- South Bound
- East Bound
- West Bound

**Movement:**
- L - T - R
- T - L - R

**Right:**
- Include
- Uncontrolled

**Volume Module:**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lanes</td>
<td>0 0 0 0 0 0</td>
</tr>
<tr>
<td>Base Vol.</td>
<td>0 121 0 0 112 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Growth Adj.</td>
<td>1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0</td>
</tr>
<tr>
<td>Initial Rea.</td>
<td>0 121 0 0 112 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Added Vol.</td>
<td>0 0 14 18 0 0 0 0 0 0 7 0 9</td>
</tr>
<tr>
<td>Divergence</td>
<td>0 0 5 0 0 0 0 0 0 0 5 0 0 0</td>
</tr>
<tr>
<td>Initial Put.</td>
<td>0 121 19 18 112 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>User Adj.</td>
<td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>PHF Adj.</td>
<td>0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92</td>
</tr>
<tr>
<td>PHF Volume</td>
<td>L 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Reduce Vol.</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Final Volume</td>
<td>132 21 20 122 0 0 0 0 0 0 0 0 0 0</td>
</tr>
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</table>

#### Critical Gap Module:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical Gp</td>
<td>4.1 0.000 0.000</td>
</tr>
</tbody>
</table>

#### Capacity Module:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conflict Vol</td>
<td>0.000 0.000 0.000 0.000</td>
</tr>
<tr>
<td>Potent Cap.</td>
<td>1414 1414 1414 1414</td>
</tr>
<tr>
<td>Move Cap.</td>
<td>0.000 0.000 0.000 0.000</td>
</tr>
<tr>
<td>Volume/Cap.</td>
<td>132 132 132 132</td>
</tr>
</tbody>
</table>

#### Level Of Service Module:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2Way5Sthq</td>
<td>0.000 0.000 0.000 0.000</td>
</tr>
<tr>
<td>Control Del</td>
<td>7.5 7.5 7.5 7.5</td>
</tr>
<tr>
<td>LOS by Move</td>
<td>MT - LTR - RT</td>
</tr>
<tr>
<td>Movement</td>
<td>MT - LTR - RT</td>
</tr>
<tr>
<td>Shared LOS</td>
<td>0.000 0.000 0.000 0.000</td>
</tr>
<tr>
<td>Approach Del</td>
<td>9.8 9.8 9.8 9.8</td>
</tr>
</tbody>
</table>

Note: Queue reported is the number of cars per lane.

---

**Traffic 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA**
### Level of Service Computation Report

**2000 HCM Unsignalized Method [Future Volume Alternative]**

**Intersection #3 Bwana Dr/Liana Dr**

<table>
<thead>
<tr>
<th>Street Name:</th>
<th>Bwana Dr</th>
<th>Liana Dr</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Bound:</td>
<td>L - T - R</td>
<td>L - T - R</td>
</tr>
<tr>
<td>South Bound:</td>
<td>L - T - R</td>
<td>L - T - R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Movement</th>
<th>Approach</th>
<th>Volume Module</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Base Vol: 0 0 0 116 0 0 0 2 0 0 0 1 125</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Initial Bse: 0 0 0 116 0 0 0 2 0 0 0 1 125</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Diversion: 0 0 0 -25 0 25 25 0 0 0 0 0 0-25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Initial Flt: 0 0 0 91 0 25 25 9 0 0 0 3 109</td>
</tr>
<tr>
<td></td>
<td></td>
<td>User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHF Adj: 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHP Volume: 0 0 0 91 0 25 25 9 0 0 0 3 109</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Final Volume: 0 0 0 91 0 25 25 9 0 0 0 3 109</td>
</tr>
</tbody>
</table>

| Critical Gap Module: Critical Gp:xxxx xxxx xxxx xxxx 6.4 6.5 6.2 4.1 xxxx xxxx xxxx xxxx xxxx xxxx |
| Capacity Module: Conflict Vol: xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx |
| Potent Cap.: xxxx xxxx xxxx xxxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |
| Move Cap.: xxxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |
| Volume/Cap: x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |

| Level Of Service Module: JwAy9hkg: x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |
| Control Del1: x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |
| LOS by Move: * * A |
| Movement: LT - LTR - RT LT - LTR - RT LT - LTR - RT LT - LTR - RT |
| Shared Cap.: x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |
| SharedQueue: x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |
| Shared Vol: x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |
| Shared LOS: * * * A * A * * |
| ApproachDel: x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx x.xxx |
| ApproachLOS: A * A * A |

**Note:** Queue reported is the number of cars per lane.
### Level of Service Computation Report

#### AM Baseline plus Project

**Street Name:** West Ave/Liana Dr

**Volume Module:**
- **Base Vol:** 51 293 0 0 295 84 64 0 39 0 0 0
- **Growth Adj:** 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
- **Initial Bas:** 51 293 0 0 295 84 64 0 39 0 0 0
- **Added Vol:** 1 0 0 0 0 0 1 2 0 5 0 0
- **Diversions:** -25 0 0 0 0 0 0 -25 0 0 0
- **Initial Pts:** 51 293 0 0 295 84 66 0 13 0 0 0
- **User Adj:** 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
- **PHF Adj:** 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.80 0.80
- **PHF Volume:** 34 366 0 0 369 106 83 0 24 0 0 0
- **Reduce Vol:** 0 0 0 0 0 0 0 0 0 0 0 0
- **Final Volume:** 34 366 0 0 369 106 83 0 24 0 0 0

#### PM Baseline plus Project

**Street Name:** West Ave/Liana Dr

**Volume Module:**
- **Base Vol:** 12 190 0 0 172 16 39 0 25 0 0 0
- **Growth Adj:** 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
- **Initial Bas:** 12 190 0 0 172 16 39 0 25 0 0 0
- **Added Vol:** 6 0 0 0 0 0 2 1 0 3 0 0
- **Diversions:** 0 0 0 0 0 0 0 -5 0 0 0 0
- **Initial Pts:** 13 190 0 0 172 16 40 0 23 0 0 0
- **User Adj:** 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
- **PHF Adj:** 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78
- **PHF Volume:** 17 245 0 0 221 23 51 0 30 0 0 0
- **Reduce Vol:** 0 0 0 0 0 0 0 0 0 0 0 0
- **Final Volume:** 17 245 0 0 221 23 51 0 30 0 0 0

**Note:** Queue reported is the number of cars per lane.
### Traffic Impact Study for Crossroads Apartments
County of Sonoma

**Level Of Service Computation Report**

**2000 NCH Unsignalized Method (Future Volume Alternative)**

#### Intersection #5 Burbank Ave/Hearn Ave

**Average Delay (sec/veh):** 2.7  
**Worst Case Level Of Service:** B (13.2)

<table>
<thead>
<tr>
<th>Street Name</th>
<th>Movement</th>
<th>North Bound</th>
<th>South Bound</th>
<th>East Bound</th>
<th>West Bound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burbank Ave</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td></td>
</tr>
<tr>
<td>Hearn Ave</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
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</table>

<table>
<thead>
<tr>
<th>Control</th>
<th>Rights:</th>
<th>Include</th>
<th>Stop Sign</th>
<th>Include</th>
<th>Uncontrolled</th>
<th>Include</th>
<th>Uncontrolled</th>
<th>Include</th>
<th>Include</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movement</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Bound</td>
<td>0 1 1 0</td>
<td>0</td>
<td>0</td>
<td>0 1 0 1</td>
<td>0 1 0 1</td>
<td>0 1 0 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Bound</td>
<td>0 1 1 0</td>
<td>0</td>
<td>0</td>
<td>0 1 0 1</td>
<td>0 1 0 1</td>
<td>0 1 0 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Bound</td>
<td>0 1 1 0</td>
<td>0</td>
<td>0</td>
<td>0 1 0 1</td>
<td>0 1 0 1</td>
<td>0 1 0 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>West Bound</td>
<td>0 1 1 0</td>
<td>0</td>
<td>0</td>
<td>0 1 0 1</td>
<td>0 1 0 1</td>
<td>0 1 0 1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Volume Module: &gt;&gt; Count Date: 2 Jun 2010 &lt;&lt; 7:15 - 8:15 am</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Vol: 1 0 9 36 1 25 24 273 1 11 228 18</td>
</tr>
<tr>
<td>Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>Initial Bus: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Added Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Diversion: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Initial Pk: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>PHP Adj: 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.86 0.86</td>
</tr>
<tr>
<td>PHP Volume: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Final Volume: 0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

### Critical Gap Module

**Critical Gp:** 7.1 6.5 6.2 7.1 6.5 6.2 4.1 2.0 0.0 4.1 6.5 6.2

### Capacity Module

**Conflict Vol:** 768 749 318 742 738 278 289 340 319 742 738 278
**Conflict Cap.:** 312 343 728 334 348 766 1268 1253 1253
**Move Cap.:** 282 254 728 315 329 766 1268 1253 1253
**Total Cap.:** 389 470 840 422 420 840 1680 1680 1680
**Volume/Cap.:** 0.00 0.00 0.20 0.12 0.60 0.30 0.05 0.05 0.05

### Level Of Service Module

**2Way95thQ:** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
**Conflict Del:** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
**LOS by Move:** A A A A A A

### Level Of Service Module

**2Way95thQ:** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
**Conflict Del:** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
**LOS by Move:** A A A A A A

Note: Queue reported is the number of cars per lane.
<table>
<thead>
<tr>
<th>Intersection Name</th>
<th>Traffic Impact Study Conditions</th>
<th>Type of Service</th>
<th>Year</th>
<th>Month</th>
<th>Day</th>
<th>Time</th>
<th>Volume</th>
<th>Average Delay (sec/veh)</th>
<th>Worst Case Level of Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hearn Ave/West Ave</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.4</td>
<td>C (15.2)</td>
</tr>
</tbody>
</table>

**2000 CMH Unsignalized Method (Future Volume Alternative)**

<table>
<thead>
<tr>
<th>Street Name</th>
<th>Approach</th>
<th>Movement</th>
<th>Control</th>
<th>Rights</th>
<th>Lanes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>North Bound</td>
<td>L - T - R</td>
<td>Stop Sign</td>
<td>Include</td>
<td>0 0 0 0</td>
</tr>
<tr>
<td></td>
<td>South Bound</td>
<td>L - T - R</td>
<td>Stop Sign</td>
<td>Include</td>
<td>0 0 0 0</td>
</tr>
<tr>
<td></td>
<td>East Bound</td>
<td>L - T - R</td>
<td>Uncontrolled</td>
<td>Include</td>
<td>0 0 0 0</td>
</tr>
<tr>
<td></td>
<td>West Bound</td>
<td>L - T - R</td>
<td>Uncontrolled</td>
<td>Include</td>
<td>0 0 0 0</td>
</tr>
</tbody>
</table>

**Level of Service Calculation Report**

<table>
<thead>
<tr>
<th>Volume Module</th>
<th>&gt;&gt; Count Date: 25 May 2010 &lt; 4:00 - 5:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Vol</td>
<td>0 0 0 0 92 0 64 57 358 0 0 384 79</td>
</tr>
<tr>
<td>Growth Adj</td>
<td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>Initial Rise</td>
<td>0 0 0 0 92 0 64 57 358 0 0 384 79</td>
</tr>
<tr>
<td>Added Vol</td>
<td>0 0 0 0 2 0 1 1 6 0 0 10 5</td>
</tr>
<tr>
<td>Diversion</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Initial Flow</td>
<td>0 0 0 0 55 0 67 47 378 0 0 329 58</td>
</tr>
<tr>
<td>User Adj</td>
<td>0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85</td>
</tr>
<tr>
<td>PHF Volume</td>
<td>0 0 0 0 65 0 79 56 447 0 0 389 69</td>
</tr>
<tr>
<td>Reduct Vol</td>
<td>0 0 0 0 0 0 0 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Final Volume</td>
<td>0 0 0 0 65 0 79 56 447 0 0 389 69</td>
</tr>
</tbody>
</table>

**Critical Gap Module:**

| Critical Gap | 6.4 6.5 6.2 4.1 6.4 6.5 6.2 3.5 4.0 3.3 2.2 |

**Follow-Up Time Module:**

| Follow-Up Time | 6.4 6.5 6.2 4.1 6.4 6.5 6.2 3.5 4.0 3.3 2.2 |

**Capacity Module:**

| Capacity | 982 982 424 458 982 982 424 458 |

**Conflict Module:**

| Conflict Vol | 1020 1020 491 1020 1020 491 |

**Potential Cap:**

| Potential Cap | 264 238 582 1040 264 238 582 1040 |

**Move Cap:**

| Move Cap | 253 225 582 1040 253 225 582 1040 |

**Total Cap:**

| Total Cap | 287 316 383 341 287 316 383 341 |

**Volume/Cap:**

| Volume/Cap | 0.17 0.00 0.12 0.05 |

**Level of Service Module:**

| Level of Service | 0.2 0.2 0.2 0.2 |

**LOS by Move:**

| LOS | A |

<table>
<thead>
<tr>
<th>Movement</th>
<th>LT - LTR - RT</th>
<th>LT - LTR - RT</th>
<th>LT - LTR - RT</th>
<th>LT - LTR - RT</th>
</tr>
</thead>
</table>

**Total:**

| Total | 15.2 |

**Approach Delay:**

| Approach Delay | 15.2 |

| Note: Queues are reported in the number of cars per lane. |

Traffic 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA.
<table>
<thead>
<tr>
<th>Intersection: #1 Burbank Ave/Sebastopol Rd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycle (sec): 100</td>
</tr>
<tr>
<td>Critical Vol./Cap.K: 0.610</td>
</tr>
<tr>
<td>Lanes: 0</td>
</tr>
<tr>
<td>enade: 0</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>Duration: 6 (Y+R+4.0 sec)</td>
</tr>
<tr>
<td>Average Delay (sec/veh): 15.6</td>
</tr>
<tr>
<td>Optimally: 34</td>
</tr>
<tr>
<td>Level Of Service: B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street Name: Burbank Ave</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approach: North Bound</td>
</tr>
<tr>
<td>Movement: L - T - R</td>
</tr>
<tr>
<td>Control: Protected</td>
</tr>
<tr>
<td>Rights: Include</td>
</tr>
<tr>
<td>Min. Green: 0</td>
</tr>
<tr>
<td>Lanes: 0</td>
</tr>
<tr>
<td>Volume Module:</td>
</tr>
<tr>
<td>Base Vol: 146</td>
</tr>
<tr>
<td>Growth Adj: 1.00</td>
</tr>
<tr>
<td>Initial: 146</td>
</tr>
<tr>
<td>User: 146</td>
</tr>
<tr>
<td>PHF Adj: 1.00</td>
</tr>
<tr>
<td>PHF Volume: 146</td>
</tr>
<tr>
<td>Reduction: 0</td>
</tr>
<tr>
<td>Reduced Vol: 146</td>
</tr>
<tr>
<td>PCE Adj: 1.00</td>
</tr>
<tr>
<td>MLP Adj: 1.00</td>
</tr>
<tr>
<td>Final Volume: 146</td>
</tr>
</tbody>
</table>

| Saturated Flow Module:                  |
| Sat./Lane: 1900 1850 1900 1900 1900 1900 1900 1900 |
| Adjustment: 0.91                        |
| Lanes: 0                                |
| Volume/Cap: 0.61                        |
| Delay/Veh: 33.6                         |
| Delay/Dep: 33.6                         |
| LOS by Move: C                         |
| Priority Code: A                       |

| Capacitated Module:                     |
| Vol/Sat: 0.17                           |
| Crit Move: 0.00                         |
| Volume/Cap: 0.61                        |
| Delay/Veh: 33.6                         |
| Delay/Dep: 33.6                         |
| LOS by Move: C                         |
| Priority Code: A                       |

Note: Queue reported is the number of cars per lane.
Intersection #3 Biwana Dr/Liana Dr

2000 HCM Unsignalized Method (Base Volume Alternative)

Average Delay (sec/veh): 4.7
Worst Case Level Of Service: A (9.8)

Street Name: Biwana Dr/Liana Dr
Approach:
- North Bound
- South Bound
- East Bound
- West Bound

Control: Stop Sign
Rights: Include
Lanes: 0 0 0

Volume Module:
Base Vol: 0 0 0 151 0 0 2 0 0 1 163
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial See: 0 0 0 151 0 0 2 0 0 1 163
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj: 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume: 0 0 0 164 0 0 2 0 0 1 177
Reduct Vol: 0 0 0 0 0 0 0 0 0 0 0
Final Volume: 0 0 0 164 0 0 2 0 0 1 177

Critical Cp: 6.4 6.5 6.2
Follow Up Tim: 3.5 4.0 3.3
Critical Gap: 6.4 6.5 6.2

Level Of Service Module:

Note: Queue reported is the number of cars per lane.

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### AM Peak Hour - Future Conditions
#### Traffic Impact Study for Crossroads Apartments
### County of Sonoma

#### Level of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

<table>
<thead>
<tr>
<th>Intersection</th>
<th>#5 Burbank Ave/Hearn Ave</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Delay (sec/veh):</td>
<td>11.5</td>
</tr>
<tr>
<td>Worst Case Level of Service:</td>
<td>F (53.5)</td>
</tr>
</tbody>
</table>

#### Street: Burbank Ave

<table>
<thead>
<tr>
<th>Movement</th>
<th>North Bound</th>
<th>South Bound</th>
<th>East Bound</th>
<th>West Bound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movement</td>
<td>L = T - R</td>
<td>L = T - R</td>
<td>L = T - R</td>
<td>L = T - R</td>
</tr>
<tr>
<td>Control</td>
<td>Stop Sign</td>
<td>Stop Sign</td>
<td>Uncontrolled</td>
<td>Uncontrolled</td>
</tr>
<tr>
<td>Rights</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
</tr>
<tr>
<td>Lanes</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Traffic Volume:

| Base Vol: | 11 10 29 215 5 110 81 634 16 29 764 203 |
| Growth Adj: | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 |
| Initial Bae: | 1 0 9 238 1 47 38 551 1 11 390 85 |
| User Adj: | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 |
| PHP Adj: | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 |
| PHP Volume: | 1 0 9 238 1 47 38 551 1 11 390 85 |
| Reduct Vol: | 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Final Volume: | 1 0 9 238 1 47 38 551 1 11 390 85 |

#### Critical Gap Module:

| Critical Gp: | 7.1 6.5 6.2 7.1 6.5 6.2 4.1 xxxx xxxx xxxx 4.1 xxxx xxxx |
| FollowUpTIm: | 3.5 4.0 3.3 3.5 4.0 3.3 2.2 xxxx xxxx 2.2 xxxx xxxx |

#### Capacity Module:

| Cnflct Vol: | 1106 1162 552 1087 1083 433 475 xxxx xxxx 552 xxxx xxxx |
| Potent Cap.: | 190 207 538 195 219 627 1098 xxxx xxxx 1028 xxxx xxxx |
| Move Cap.: | 169 198 538 186 209 627 1098 xxxx xxxx 1028 xxxx xxxx |
| Total Cap.: | 292 310 xxxx 310 323 xxxx xxxx xxxx xxxx 292 xxxx xxxx |
| Volume/Cap: | 0.00 0.00 0.02 0.77 0.00 0.07 0.03 xxxx xxxx 0.01 xxxx xxxx |

#### Level of Service Module:

| Level of Service Module: | 2Way/5thQ: xxxx xxxx xxxx xxxx 0.1 xxxx xxxx 0.0 xxxx xxxx |
| Control Del:xxxx xxxx xxxx xxxx xxxx xxxx 8.4 xxxx xxxx 8.3 xxxx xxxx |
| LOS by Move: | * * * * * * * A * A |
| Movement: | L = LTR - RT L = LTR - RT L = LTR - RT L = LTR - RT |
| Shared Queue:xxxx xxxx 0.1 xxxx xxxx 7.6 xxxx xxxx 7.6 xxxx xxxx |
| Shrd ConDel:xxxx 12.4 xxxx xxxx 53.5 xxxx xxxx 53.5 xxxx xxxx |
| Shared LOS: | * * F * F F F F |
| Approach Del: | 12.4 53.5 xxxxx xxxxx |
| Approach LOS: | F F F F F |

---

Note: Queue reported is the number of cars per lane.

---

### PM Peak Hour - Future Conditions
#### Traffic Impact Study for Crossroads Apartments
### County of Sonoma

#### Level of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

<table>
<thead>
<tr>
<th>Intersection</th>
<th>#5 Burbank Ave/Hearn Ave</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Delay (sec/veh):</td>
<td>38.5</td>
</tr>
<tr>
<td>Worst Case Level of Service:</td>
<td>F(365.7)</td>
</tr>
</tbody>
</table>

#### Street: Hearn Ave

<table>
<thead>
<tr>
<th>Movement</th>
<th>North Bound</th>
<th>South Bound</th>
<th>East Bound</th>
<th>West Bound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Movement</td>
<td>L = T - R</td>
<td>L = T - R</td>
<td>L = T - R</td>
<td>L = T - R</td>
</tr>
<tr>
<td>Control</td>
<td>Stop Sign</td>
<td>Stop Sign</td>
<td>Uncontrolled</td>
<td>Uncontrolled</td>
</tr>
<tr>
<td>Rights</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
</tr>
<tr>
<td>Lanes</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Traffic Volume:

| Base Vol: | 11 2 29 215 5 110 81 634 16 29 764 203 |
| Growth Adj: | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 |
| Initial Bae: | 11 2 29 215 5 110 81 634 16 29 764 203 |
| User Adj: | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 |
| PHP Adj: | 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 |
| PHP Volume: | 11 2 29 215 5 110 81 634 16 29 764 203 |
| Reduction Vol: | 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Final Volume: | 11 2 29 215 5 110 81 634 16 29 764 203 |

#### Critical Gap Module:

| Critical Gp: | 7.1 6.5 6.2 7.1 6.5 6.2 4.1 xxxx xxxx xxxx 4.1 xxxx xxxx |
| FollowUpTIm: | 3.5 4.0 3.3 3.5 4.0 3.3 2.2 xxxx xxxx 2.2 xxxx xxxx |

#### Capacity Module:

| Cnflct Vol: | 1785 1829 642 1743 1736 866 967 xxxx xxxx 650 xxxx xxxx |
| Potent Cap.: | 64 77 478 65 88 356 720 xxxx xxxx 946 xxxx xxxx |
| Move Cap.: | 38 67 478 56 76 356 720 xxxx xxxx 946 xxxx xxxx |
| Total Cap.: | 93 154 xxxx 161 186 xxxx xxxx xxxx xxxx 93 154 xxxx xxxx |
| Volume/Cap: | 0.12 0.01 0.06 1.34 0.03 0.31 0.11 xxxx xxxx 0.03 xxxx xxxx |

#### Level of Service Module:

| Level of Service Module: | 2Way/5thQ: xxxx xxxx xxxx xxxx 0.4 xxxx xxxx 0.1 xxxx xxxx |
| Control Del:xxxx xxxx xxxx xxxx xxxx xxxx 10.6 xxxx xxxx 8.9 xxxx xxxx |
| LOS by Move: | * * * * * * * B * A * |
| Movement: | L = LTR - RT L = LTR - RT L = LTR - RT L = LTR - RT |
| Shared Queue:xxxx 0.7 xxxx xxxx 22.2 xxxx xxxx 22.2 xxxx xxxx |
| Shrd ConDel:xxxx 25.4 xxxx xxxx 365 xxxx xxxx 365 xxxx xxxx |
| Shared LOS: | * * D * F * F F |
| Approach Del: | 25.4 365.7 xxxx xxxx |
| Approach LOS: | F F F F F |

---

Note: Queue reported is the number of cars per lane.

---

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AM Peak Hour - Future Conditions
Traffic Impact Study for Crossroads Apartments
County of Sonoma

Level of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection: #6 Hearn Ave/West Ave

Average Delay (sec/veh): 27.1

Area Bound: North Bound

<table>
<thead>
<tr>
<th>Movement</th>
<th>L - T - R</th>
<th>L - T - R</th>
<th>L - T - R</th>
<th>L - T - R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>Stop Sign</td>
<td>Stop Sign</td>
<td>Uncontrolled</td>
<td>Uncontrolled</td>
</tr>
<tr>
<td>Rights</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
</tr>
<tr>
<td>Lanes</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
</tr>
</tbody>
</table>

Volume Module:

| Base Vol | 0 0 0 0 | 177 0 325 | 88 458 0 | 0 427 71 |
| Growth Adj | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 |
| Initial Bse | 0 0 0 0 | 177 0 325 | 88 458 0 | 0 427 71 |
| User Adj | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 |
| FHWA Adj | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 |
| FHWA Volume | 0 0 0 0 | 177 0 325 | 88 458 0 | 0 427 71 |
| Reduct Vol | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 |
| Final Volume | 0 0 0 0 | 177 0 325 | 88 458 0 | 0 427 71 |

Capacity Module:

| Critical Gp | XXXX XXXX XXXX XXXX | 6.4 6.5 6.2 4.1 XXXX XXXX XXXX XXXX XXXX |
| Follow-Up Time | XXXX XXXX XXXX XXXX | 3.5 4.0 3.3 2.2 XXXX XXXX XXXX XXXX XXXX |

Level Of Service Module:

| Delay | 0.3 XXXX XXXX XXXX XXXX | 8.6 XXXX XXXX XXXX XXXX |
| LOS by Move | " " " " " " " " A " " " " " " |
| Movement | LT - LTR - RT | LT - LTR - RT | LT - LTR - RT | LT - LTR - RT |
| Shared Queue | XXXX XXXX XXXX 15.0 XXXX XXXX XXXX XXXX 81.9 XXXX XXXX XXXX |
| Shrd Cond | XXXX XXXX XXXX 842 XXXX XXXX XXXX XXXX XXXX |
| Approach Del | XXXX XXXX 83.9 XXXX XXXX XXXX |
| Approach LOS | XXXX XXXX XXXX |

Note: Queue reported is the number of cars per lane.

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PM Peak Hour - Future Conditions
Traffic Impact Study for Crossroads Apartments
County of Sonoma

Level of Service Computation Report

2000 HCM Unsignalized Method (Base Volume Alternative)

Intersection: #6 Hearn Ave/West Ave

Average Delay (sec/veh): 15.1

Area Bound: North Bound

<table>
<thead>
<tr>
<th>Movement</th>
<th>L - T - R</th>
<th>L - T - R</th>
<th>L - T - R</th>
<th>L - T - R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control</td>
<td>Stop Sign</td>
<td>Stop Sign</td>
<td>Uncontrolled</td>
<td>Uncontrolled</td>
</tr>
<tr>
<td>Rights</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
<td>Include</td>
</tr>
<tr>
<td>Lanes</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
<td>0 0 0 0</td>
</tr>
</tbody>
</table>

Volume Module:

| Base Vol | 0 0 0 0 | 129 0 164 | 252 502 0 | 0 473 189 |
| Growth Adj | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 |
| Initial Bse | 0 0 0 0 | 129 0 164 | 252 502 0 | 0 473 189 |
| User Adj | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 |
| FHWA Adj | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 | 1.00 1.00 1.00 |
| FHWA Volume | 0 0 0 0 | 129 0 164 | 252 502 0 | 0 473 189 |
| Reduct Vol | 0 0 0 0 | 0 0 0 0 | 0 0 0 0 | 0 0 0 |
| Final Volume | 0 0 0 0 | 129 0 164 | 252 502 0 | 0 473 189 |

Capacity Module:

| Critical Gp | XXXX XXXX XXXX XXXX | 6.4 6.5 6.2 4.1 XXXX XXXX XXXX XXXX XXXX |
| Follow-Up Time | XXXX XXXX XXXX XXXX | 3.5 4.0 3.3 2.2 XXXX XXXX XXXX XXXX XXXX |

Level Of Service Module:

| Delay | 0.3 XXXX XXXX XXXX XXXX | 8.6 XXXX XXXX XXXX XXXX |
| LOS by Move | " " " " " " " " A " " " " " " |
| Movement | LT - LTR - RT | LT - LTR - RT | LT - LTR - RT | LT - LTR - RT |
| Shared Queue | XXXX XXXX XXXX 15.0 XXXX XXXX XXXX XXXX 81.9 XXXX XXXX XXXX |
| Shrd Cond | XXXX XXXX XXXX 842 XXXX XXXX XXXX XXXX XXXX |
| Approach Del | XXXX XXXX 83.9 XXXX XXXX XXXX |
| Approach LOS | XXXX XXXX XXXX |

Note: Queue reported is the number of cars per lane.

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### AM Future plus Project

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#### Traffic Impact Study for Crossroads Apartments

**County of Sonoma**

---

#### Level Of Service Computation Report

**2000 HCM Operations Method (Future Volume Alternative)**

<table>
<thead>
<tr>
<th>Intersection</th>
<th>Hurban Ave/Sebastopol Rd</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cycle (sec):</strong></td>
<td>100</td>
</tr>
<tr>
<td><strong>Critical Vol./Cap. (X):</strong></td>
<td>0.622</td>
</tr>
<tr>
<td><strong>Loss Time (sec):</strong></td>
<td>6 (YR=4.0 sec)</td>
</tr>
<tr>
<td><strong>Average Delay (sec/veh):</strong></td>
<td>16.2</td>
</tr>
<tr>
<td><strong>Optimal Level Of Service:</strong></td>
<td>(2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street Name</th>
<th>Hurban Ave</th>
<th>Sebastopol Rd</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Approach:</strong></td>
<td>North Bound</td>
<td>South Bound</td>
</tr>
<tr>
<td><strong>Movement:</strong></td>
<td>L - T - R</td>
<td>L - T - R</td>
</tr>
<tr>
<td><strong>Rights:</strong></td>
<td>Include</td>
<td>Include</td>
</tr>
<tr>
<td><strong>Lanes:</strong></td>
<td>0 0 0</td>
<td>0 0 0</td>
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<table>
<thead>
<tr>
<th>Volume Module:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Vol:</td>
<td>146 0 149</td>
</tr>
<tr>
<td>Growth Adj:</td>
<td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>Initial Bse:</td>
<td>146 0 149</td>
</tr>
<tr>
<td>Added Vol:</td>
<td>7 0 0</td>
</tr>
<tr>
<td>Parking Vol:</td>
<td>0 0 0</td>
</tr>
<tr>
<td>Initial Puf:</td>
<td>153 0 157</td>
</tr>
<tr>
<td>User Adj:</td>
<td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>PHF Adj:</td>
<td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>PHF Vol:</td>
<td>153 0 157</td>
</tr>
<tr>
<td>Reduce Vol:</td>
<td>0 0 0</td>
</tr>
<tr>
<td>PCG Adj:</td>
<td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>MLP Adj:</td>
<td>1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00</td>
</tr>
<tr>
<td>FinalVolume:</td>
<td>153 0 157</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Saturation Flow Module:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat/Lane:</td>
<td>1900 1900 1900 1900 1900 1900 1900 1900 1900 1900</td>
</tr>
<tr>
<td>Adjustment:</td>
<td>0.91 0.91 0.91 0.91 0.91 0.91 0.91 0.91 0.91 0.91</td>
</tr>
<tr>
<td>Lanes:</td>
<td>0.49 0.0 0.51 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td>
</tr>
<tr>
<td>Final Sat:</td>
<td>853 0 875</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Capacity Analysis Module:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Vol/Sat:</td>
<td>0.18 0.30 0.18 0.30 0.00 0.00 0.00 0.00 0.00 0.00</td>
</tr>
<tr>
<td>Crit Moves:</td>
<td>****</td>
</tr>
<tr>
<td>CPU:</td>
<td>0.29 0.29 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00</td>
</tr>
<tr>
<td>Volume/Cap:</td>
<td>0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84 0.84</td>
</tr>
<tr>
<td>User DelAdj:</td>
<td>0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06</td>
</tr>
<tr>
<td>AdjDel/Veh:</td>
<td>33.3 33.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td>
</tr>
<tr>
<td>Note: Queue reported is the number of cars per lane.</td>
<td></td>
</tr>
</tbody>
</table>

---

### PM Future plus Project

**Mon Jun 21, 2010 17:42:53**

#### Traffic Impact Study for Crossroads Apartments

**County of Sonoma**

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#### Level Of Service Computation Report

**2000 HCM Operations Method (Future Volume Alternative)**

<table>
<thead>
<tr>
<th>Intersection</th>
<th>Hurban Ave/Sebastopol Rd</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cycle (sec):</strong></td>
<td>100</td>
</tr>
<tr>
<td><strong>Critical Vol./Cap. (X):</strong></td>
<td>0.844</td>
</tr>
<tr>
<td><strong>Loss Time (sec):</strong></td>
<td>6 (YR=4.0 sec)</td>
</tr>
<tr>
<td><strong>Average Delay (sec/veh):</strong></td>
<td>21.6</td>
</tr>
<tr>
<td><strong>Optimal Level Of Service:</strong></td>
<td>(2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street Name</th>
<th>Hurban Ave</th>
<th>Sebastopol Rd</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>Note: Queue reported is the number of cars per lane.</td>
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### AM Future plus Project

**Wed Jun 23, 2010 08:23:10**

<table>
<thead>
<tr>
<th>AM Peak Hour - Future plus Project Conditions Traffic Impact Study for Crossroads Apartments County of Sonoma</th>
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<tbody>
<tr>
<td><strong>Level Of Service Computation Report</strong>[200 NCM Unsignalized Method (Future Volume Alternative)]</td>
</tr>
<tr>
<td><strong>Intersection #2 Burbank Ave/Liana Dr</strong></td>
</tr>
<tr>
<td><strong>Street Name:</strong> Burbank Ave/Liana Dr</td>
</tr>
<tr>
<td><strong>Approach:</strong> North Bound, South Bound, East Bound, West Bound</td>
</tr>
<tr>
<td><strong>Movement:</strong> L - T - R, L - T - R, L - T - R, L - T - R</td>
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<tr>
<td><strong>Control:</strong> Uncontrolled, Uncontrolled</td>
</tr>
<tr>
<td><strong>Rights:</strong> Include, Include, Include, Include</td>
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<tr>
<td><strong>Lanes:</strong> 0, 0, 0, 0</td>
</tr>
<tr>
<td><strong>Base Vol:</strong> 0, 149, 0, 266</td>
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<td><strong>Growth Adj:</strong> 1.00, 1.00, 1.00, 1.00</td>
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<td><strong>Final Volume:</strong> 0, 161, 30, 4, 289</td>
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<td><strong>Critical Gap Module:</strong></td>
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<td><strong>Critical Gp:</strong></td>
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<td><strong>FollowUpT:</strong></td>
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<td><strong>CnflctVol:</strong></td>
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<tr>
<td><strong>Potent Cap.:</strong></td>
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<tr>
<td><strong>Move Cap.:</strong></td>
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<td><strong>MaxStayT:</strong></td>
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<td><strong>Control Del.:</strong></td>
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<tr>
<td><strong>Shared Queue:</strong></td>
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<td><strong>Shrd Cont.I:</strong></td>
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<tr>
<td><strong>Approach Del.:</strong></td>
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<td><strong>Approach LOS:</strong></td>
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### PM Future plus Project

**Wed Jun 23, 2010 08:23:16**

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<td><strong>Intersection #2 Burbank Ave/Liana Dr</strong></td>
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<tr>
<td><strong>Street Name:</strong> Burbank Ave/Liana Dr</td>
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<td><strong>Approach:</strong> North Bound, South Bound, East Bound, West Bound</td>
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<td><strong>Lanes:</strong> 0, 0, 0, 0</td>
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<td><strong>Base Vol:</strong> 0, 250, 0, 276</td>
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<td><strong>Added Vol:</strong> 0, 0, 14, 18</td>
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<tr>
<td><strong>Final Volume:</strong> 0, 315, 21, 20, 300</td>
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<tr>
<td><strong>Critical Gap Module:</strong></td>
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<td><strong>Critical Gp:</strong></td>
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<td><strong>FollowUpT:</strong></td>
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<td><strong>Control Del.:</strong></td>
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<td><strong>Approach Del.:</strong></td>
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<td><strong>Approach LOS:</strong></td>
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<td><strong>Level Of Service:</strong></td>
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Traffic 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA
AM Future plus Project Wed Jun 23, 2010 08:23:10 Page 4-1

AM Peak Hour – Future plus Project Conditions
Traffic Impact Study for Crossroads Apartments
County of Sonoma

2000 HCM Unsignalized Method (Future Volume Alternative)

Intersection: Biwana Dr/Liana Dr

Average Delay (sec/veh): 9.3
Worst Case Level of Service: B [10.1]

Street Name: Biwana Dr
Approach: North Bound
Movement: L - T - R

Control: Stop Sign

Right: Include

Lanes: 0 0 0 0 0 0 0 0 0 0 0

Volume Module:
Base Vol: 0 0 0 0 0 0 151 0 0 2 0 0 1
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial See: 0 0 0 0 0 0 0 0 0 0 0 0 0
Added Vol: 0 0 0 0 0 0 7 0 0 0 2 0 0
Diversion: 0 0 0 0 0 0 0 0 0 0 0 0 0
Initial Pot: 0 0 0 0 0 0 0 0 0 0 0 0 0
User Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
PHF Adj: 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92 0.92
PHF Volume: 0 0 0 0 0 0 0 0 0 0 0 0 0
Reduce Vol: 0 0 0 0 0 0 0 0 0 0 0 0 0
Final Volume: 0 0 0 0 0 0 0 0 0 0 0 0 0
Critical Gap: 6.4 6.5 6.2 4.1
FollowUpTIm: 3.5 4.0 3.3

Capacity Module:
Conflict Vol: xxxxx xxxxxx xxxxxx xxxxxx 142 142 78 193 xxxxxx xxxxxx xxxxxx xxxxxx
Potential Cap.: xxxxxx xxxxxx xxxxxx xxxxxx 855 752 988 1440 xxxxxx xxxxxx xxxxxx xxxxxx
Movie Cap.: xxxxxx xxxxxx xxxxxx xxxxxx 843 738 988 1440 xxxxxx xxxxxx xxxxxx xxxxxx
Volume/Cap: xxxxxx xxxxxx xxxxxx 0.16 0.00 0.03 0.02 xxxxxx xxxxxx xxxxxx xxxxxx

Level of Service Module:
2Way95thQ: xxxxxx xxxxxx xxxxxx xxxxxx 0.1 xxxxxx xxxxxx xxxxxx xxxxxx
Control Del: xxxxxx xxxxxx xxxxxx 7.5 xxxxxx xxxxxx xxxxxx xxxxxx
LOS by Mov.: LRT - RTS 1.0
Movement: LT - LTR - RT LT - LTR - RT LT - LTR - RT
Shared Cap.: xxxxxx xxxxxx xxxxxx xxxxxx 864 xxxxxx xxxxxx xxxxxx xxxxxx
Shared LOS: 3.4

Approach:
10.1
Approach LOS: B

Note: Queue reported is the number of cars per lane.

Traffic 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA
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<td>Traffic Impact Study for Crossroads Apartments</td>
<td>County of Sonoma</td>
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<td>Street Name: West Ave/Liana Dr</td>
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<td>Street Name: West Ave/Liana Dr</td>
<td>Movement: L - T - R, L - T - R, L - T - R, L - T - R</td>
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<td>Growth Adj: 1.00 1.00 1.50 1.00 1.00 1.00 1.00 1.00</td>
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<tr>
<td></td>
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<td>Initial Abs: 33 404 / 0 0 216 22 / 42 0 31 / 0 0 0 0</td>
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<tr>
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<td></td>
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<td>Move Cap.: 1339 000 000 000 000 000 000 000</td>
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<td>LOS by Move:</td>
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<td>Note: Queue reported is the number of cars per lane.</td>
<td>Note: Queue reported is the number of cars per lane.</td>
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AM Peak Hour - Future plus Project Conditions
Traffic Impact Study for Crossroads Apartments
County of Sonoma

2000 MCM Unsignalized Method (Future Volume Alternative)

Level of Service Computation Report

Average Delay (sec/veh): 18.8 Worst Case Level Of Service: F (81.2)

Street Name: Burbank Ave
Approach Movement: L - T - R | L - T - R | L - T - R | L - T - R

Control: Stop Sign
Rights: Include

Lanes: 0 0 1 0 0 0 0 1 0 0 0 1 0 0 0 1 0 0

Volume Module:
Base Vol: 1 0 9 238 1 47 38 551 1 11 390 85
Growth Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial See: 1 0 9 238 1 47 38 551 1 11 390 85
Added Vol: 0 0 0 0 0 0 0 0 0 0 0
Divergence: 0 0 0 0 0 0 0 0 0 0 0
Initial Flt: 1 0 9 247 1 75 64 551 1 11 391 87
Reduced Vol: 0 0 0 0 0 0 0 0 0 0 0
Final Volume: 1 0 9 247 1 75 64 551 1 11 391 87

Critical Gap Module:
Critical Gp: 7.1 6.5 6.2 7.1 6.5 6.2 4.1 xxxxxx xxxxx 4.1 xxxxxx xxxxx
FollowGpTim: 3.5 4.0 3.3 3.5 4.0 3.3 2.2 xxxxxx xxxxx 2.2 xxxxxx xxxxx

Capacity Module:
Conflic Vol: 1174 1180 552 1141 1137 435 478 xxxxx xxxxx 552 xxxxx xxxxx
Potent Cap.: 170 192 538 180 204 626 1095 xxxxx xxxxx 1028 xxxxx xxxxx
Move Cap.: 141 197 538 167 190 626 1095 xxxxx xxxxx 1028 xxxxx xxxxx
Base Vol: 1174 1180 552 1141 1137 435 478 xxxxx xxxxx 552 xxxxx xxxxx
Growth Cap: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Initial See: 1174 1180 552 1141 1137 435 478 xxxxx xxxxx 552 xxxxx xxxxx
Added Vol: 0 0 0 0 0 0 0 0 0 0 0
Divergence: 0 0 0 0 0 0 0 0 0 0 0
Initial Flt: 1 0 9 247 1 75 64 551 1 11 391 87
Reduced Vol: 0 0 0 0 0 0 0 0 0 0 0
Final Volume: 1 0 9 247 1 75 64 551 1 11 391 87

Level of Service Module:
2Way 30% Q: xxxxx xxxxx xxxxx xxxxx xxxxx xxxxx 0.2 xxxxx xxxxx 0.0 xxxxx xxxxx
Control Del: xxxxx xxxxx xxxxx xxxxx xxxxx 8.5 xxxxx xxxxx
LOS by Move: 
LOS by Move: 

Movement: LTR LTR LTR LTR LTR LTR LTR LTR LTR LTR LTR

Note: Queue reported is the number of cars per lane.
### AM Future plus Project

**Peak Hour - Future plus Project Conditions**

Traffic Impact Study for Crossroads Apartments

**County of Sonoma**

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**2000 HCM Unsignalized Method (Future Volume Alternative)**

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<th>Intersection</th>
<th>Ave/West Ave</th>
<th>Ave/Hearn Ave</th>
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<tbody>
<tr>
<td><strong>Average Delay (sec/veh):</strong></td>
<td>21.9</td>
<td>23.4</td>
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<td><strong>Worst Case Level of Service:</strong></td>
<td>F</td>
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**Street Name:**

- **West Ave**
- **Hearn Ave**

**Approach Movements:**

<table>
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<th>Street</th>
<th>North Bound</th>
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<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
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**Volume:**

- **Base Vol:**
- **Growth Adj:**
- **Initial Be:**
- **Added Vol:**
- **Diversions:**
- **Initial Fut:**
- **User Adj:**
- **PHF Volume:**
- **Reduce Vol:**
- **Final Volume:**

**Critical Gap:**

- **Critical Gp:**
- **FollowGap:**

**Capacity Module:**

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<th>Conflict Vol</th>
<th>Potent Cap</th>
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<th>Total Cap</th>
<th>Volume/Cap</th>
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<tr>
<td>1058 1058 465</td>
<td>251 227 602</td>
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**Level of Service Module:**

<table>
<thead>
<tr>
<th>LOS by Move</th>
<th>Movement</th>
<th>Shared Cap</th>
<th>SharedQueue</th>
<th>ShrdConDel</th>
<th>Shared LOS</th>
<th>Approach Del</th>
<th>Approach LOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>LT - LTR - RT</td>
<td>0.49 0.00 0.00</td>
<td>13.1 16.5 15.5</td>
<td>67.5 87.0 45.5</td>
<td>*</td>
<td>67.5</td>
<td></td>
</tr>
</tbody>
</table>

---

**PM Future plus Project**

**Peak Hour - Future plus Project Conditions**

Traffic Impact Study for Crossroads Apartments

**County of Sonoma**

---

**2000 HCM Unsignalized Method (Future Volume Alternative)**

<table>
<thead>
<tr>
<th>Intersection</th>
<th>Ave/West Ave</th>
<th>Ave/Hearn Ave</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Average Delay (sec/veh):</strong></td>
<td>15.3</td>
<td>16.2</td>
</tr>
<tr>
<td><strong>Worst Case Level of Service:</strong></td>
<td>F</td>
<td>F</td>
</tr>
</tbody>
</table>

**Street Name:**

- **West Ave**
- **Hearn Ave**

**Approach Movements:**

<table>
<thead>
<tr>
<th>Street</th>
<th>North Bound</th>
<th>South Bound</th>
<th>East Bound</th>
<th>West Bound</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>L - T - R</strong></td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
<td>L - T - R</td>
</tr>
</tbody>
</table>

**Volume:**

- **Base Vol:**
- **Growth Adj:**
- **Initial Be:**
- **Added Vol:**
- **Diversions:**
- **Initial Fut:**
- **User Adj:**
- **PHF Volume:**
- **Reduce Vol:**
- **Final Volume:**

**Critical Gap:**

- **Critical Gp:**
- **FollowGap:**

**Capacity Module:**

<table>
<thead>
<tr>
<th>Conflict Vol</th>
<th>Potent Cap</th>
<th>Move Cap</th>
<th>Total Cap</th>
<th>Volume/Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>1584 1584 580</td>
<td>121 110 518</td>
<td>96 80 518</td>
<td>58 132 199</td>
<td>3.5 4.0 3.3</td>
</tr>
</tbody>
</table>

**Level of Service Module:**

<table>
<thead>
<tr>
<th>LOS by Move</th>
<th>Movement</th>
<th>Shared Cap</th>
<th>SharedQueue</th>
<th>ShrdConDel</th>
<th>Shared LOS</th>
<th>Approach Del</th>
<th>Approach LOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>R</td>
<td>LT - LTR - RT</td>
<td>0.66 0.00 0.00</td>
<td>13.1 16.5 15.5</td>
<td>67.5 87.0 45.5</td>
<td>*</td>
<td>67.5</td>
<td></td>
</tr>
</tbody>
</table>

---

**Note:** Queue reported is the number of cars per lane.

Traffic 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA
Appendix B

Collision Rate Spreadsheets
### Intersection Collision Rate Calculations

**Traffic Impact Study for Crossroads Apartments in the County of Sonoma**

#### Intersection # 1: Sebastopol Road & Burbank Avenue
- **Date of Count:** Tuesday, February 6, 2007

<table>
<thead>
<tr>
<th>Number of Collisions:</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Injuries:</td>
<td>4</td>
</tr>
<tr>
<td>Number of Fatalities:</td>
<td>0</td>
</tr>
<tr>
<td>ADT:</td>
<td>10800</td>
</tr>
<tr>
<td>Start Date:</td>
<td>July 1, 2004</td>
</tr>
<tr>
<td>End Date:</td>
<td>June 30, 2009</td>
</tr>
<tr>
<td>Number of Years:</td>
<td>5</td>
</tr>
</tbody>
</table>

**Intersection Type:** TEE  
**Control Type:** STOP & YIELD SIGNS  
**Area:** SUBURBAN  

**Collision Rate** = \[
\frac{\text{NUMBER OF COLLISIONS} \times 1 \text{ MILLION}}{\text{ADT} \times 365 \text{ DAYS PER YEAR} \times \text{NUMBER OF YEARS}}
\]

\[
\text{collision rate} = \frac{11}{10,800 \times 365 \times 5} 
\]

<table>
<thead>
<tr>
<th>Study Intersection</th>
<th>Collision Rate</th>
<th>Fatality Rate</th>
<th>Injury Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.56 cfmve</td>
<td>0.0%</td>
<td>36.4%</td>
</tr>
</tbody>
</table>

**Statewide Average**
- **Collision Rate:** 0.19 cfmve  
- **Fatality Rate:** 0.9%  
- **Injury Rate:** 40.5%

**ADT** = average daily total vehicles entering intersection  
**cfmve** = collisions per million vehicles entering intersection  
* 2007 Collision Data on California State Highways, Caltrans

#### Intersection # 3: Liana Drive & Siwana Drive
- **Date of Count:** Friday, December 22, 2006

<table>
<thead>
<tr>
<th>Number of Collisions:</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Injuries:</td>
<td>0</td>
</tr>
<tr>
<td>Number of Fatalities:</td>
<td>0</td>
</tr>
<tr>
<td>ADT:</td>
<td>1300</td>
</tr>
<tr>
<td>Start Date:</td>
<td>July 1, 2004</td>
</tr>
<tr>
<td>End Date:</td>
<td>June 30, 2009</td>
</tr>
<tr>
<td>Number of Years:</td>
<td>5</td>
</tr>
</tbody>
</table>

**Intersection Type:** TEE  
**Control Type:** STOP & YIELD SIGNS  
**Area:** SUBURBAN  

**Collision Rate** = \[
\frac{\text{NUMBER OF COLLISIONS} \times 1 \text{ MILLION}}{\text{ADT} \times 365 \text{ DAYS PER YEAR} \times \text{NUMBER OF YEARS}}
\]

\[
\text{collision rate} = \frac{0}{1,300 \times 365 \times 5} 
\]

<table>
<thead>
<tr>
<th>Study Intersection</th>
<th>Collision Rate</th>
<th>Fatality Rate</th>
<th>Injury Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.00 cfmve</td>
<td>0.0%</td>
<td>0.6%</td>
</tr>
</tbody>
</table>

**Statewide Average**
- **Collision Rate:** 0.19 cfmve  
- **Fatality Rate:** 0.9%  
- **Injury Rate:** 40.5%

**ADT** = average daily total vehicles entering intersection  
**cfmve** = collisions per million vehicles entering intersection  
* 2007 Collision Data on California State Highways, Caltrans
### INTERSECTION COLLISION RATE CALCULATIONS

**Traffic Impact Study for Crossroads Apartments in the County of Sonoma**

#### Intersection # 4: West Avenue & Liana Drive
**Date of Count:** Wednesday, May 26, 2010

<table>
<thead>
<tr>
<th>Number of Collisions:</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Injuries:</td>
<td>0</td>
</tr>
<tr>
<td>Number of Fatalities:</td>
<td>0</td>
</tr>
<tr>
<td>ADT:</td>
<td>4500</td>
</tr>
<tr>
<td>Start Date:</td>
<td>July 1, 2004</td>
</tr>
<tr>
<td>End Date:</td>
<td>June 30, 2009</td>
</tr>
<tr>
<td>Number of Years:</td>
<td>5</td>
</tr>
</tbody>
</table>

**Intersection Type:** TEE  
**Control Type:** STOP & YIELD SIGNS  
**Area:** SUBURBAN

\[
\text{collision rate} = \frac{\text{NUMBER OF COLLISIONS} \times 1 \text{ MILLION}}{\text{ADT} \times 365 \text{ DAYS PER YEAR} \times \text{NUMBER OF YEARS}}
\]

<table>
<thead>
<tr>
<th>collision rate =</th>
<th>0</th>
<th>1,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4,500</td>
<td>x</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Study Intersection</th>
<th>Collision Rate</th>
<th>Fatality Rate</th>
<th>Injury Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.00 c/mve</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Statewide Average*</th>
<th>Collision Rate</th>
<th>Fatality Rate</th>
<th>Injury Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.19 c/mve</td>
<td>0.9%</td>
<td>40.5%</td>
</tr>
</tbody>
</table>

ADT = average daily total vehicles entering intersection  
c/mve = collisions per million vehicles entering intersection  
* 2007 Collision Data on California State Highways, Caltrans

#### Intersection # 5: Hearn Avenue & Burbank Avenue
**Date of Count:** Wednesday, June 2, 2010

<table>
<thead>
<tr>
<th>Number of Collisions:</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Injuries:</td>
<td>4</td>
</tr>
<tr>
<td>Number of Fatalities:</td>
<td>0</td>
</tr>
<tr>
<td>ADT:</td>
<td>12500</td>
</tr>
<tr>
<td>Start Date:</td>
<td>January 1, 2000</td>
</tr>
<tr>
<td>End Date:</td>
<td>December 31, 2004</td>
</tr>
<tr>
<td>Number of Years:</td>
<td>5</td>
</tr>
</tbody>
</table>

**Intersection Type:** FOUR-LEGGED  
**Control Type:** STOP & YIELD SIGNS  
**Area:** URBAN

\[
\text{collision rate} = \frac{\text{NUMBER OF COLLISIONS} \times 1 \text{ MILLION}}{\text{ADT} \times 365 \text{ DAYS PER YEAR} \times \text{NUMBER OF YEARS}}
\]

<table>
<thead>
<tr>
<th>collision rate =</th>
<th>9</th>
<th>1,000,000</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12,300</td>
<td>x</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Study Intersection</th>
<th>Collision Rate</th>
<th>Fatality Rate</th>
<th>Injury Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.40 c/mve</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Statewide Average*</th>
<th>Collision Rate</th>
<th>Fatality Rate</th>
<th>Injury Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.22 c/mve</td>
<td>0.7%</td>
<td>42.2%</td>
</tr>
</tbody>
</table>

ADT = average daily total vehicles entering intersection  
c/mve = collisions per million vehicles entering intersection  
* 2007 Collision Data on California State Highways, Caltrans
**Intersection Collision Rate Calculations**

*City of*

**Intersection #:** 6  
**Hearn Avenue & West Avenue**

**Date of Count:** Tuesday, May 25, 2010

**Number of Collisions:** 1  
**Number of Injuries:** 1  
**Number of Fatalities:** 0  
**ADT:** 10400

**Start Date:** July 1, 2004  
**End Date:** June 30, 2009  
**Number of Years:** 5

**Intersection Type:** TEE  
**Control Type:** STOP & YIELD SIGNS  
**Area:** URBAN

\[
\text{collision rate} = \frac{\text{NUMBER OF COLLISIONS x 1 MILLION}}{\text{ADT x 365 DAYS PER YEAR x NUMBER OF YEARS}}
\]

\[
\begin{array}{cccc}
\text{collision rate} & 1 & x & 1,000,000 \\
10,400 & x & 365 & x & 5 \\
\end{array}
\]

<table>
<thead>
<tr>
<th>Study Intersection</th>
<th>Collision Rate</th>
<th>Fatality Rate</th>
<th>Injury Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.05 c/mve</td>
<td>0.0%</td>
<td>100.0%</td>
</tr>
<tr>
<td>Statewide Average*</td>
<td>0.14 c/mve</td>
<td>0.8%</td>
<td>42.4%</td>
</tr>
</tbody>
</table>

ADT = average daily total vehicles entering intersection  
c/mve = collisions per million vehicles entering intersection  
* 2007 Collision Data on California State Highways, Caltrans
SEGMENT COLLISION RATE CALCULATIONS

County of Sonoma

Location: Burbank Avenue from Sebastopol Road to Hearn Ave

Date of Count: Wednesday, June 2, 2010
ADT: 2,600

Number of Collisions: 9
Number of Injuries: 0
Number of Fatalities: 0
Start Date: July 1, 2004
End Date: June 30, 2009
Number of Years: 5
Highway Type: CONVENTIONAL 2 LANES OR LESS
Area: Suburban
Design Speed: <=45
Segment Length: 1.0 miles
Direction: NORTH/SOUTH

NUMBER OF COLLISIONS x 1 MILLION
ADT x 365 DAYS PER YEAR x SEGMENT LENGTH x NUMBER OF YEARS

<table>
<thead>
<tr>
<th>9</th>
<th>x</th>
<th>365</th>
<th>x 1</th>
<th>x 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,600</td>
<td>x</td>
<td>1,000,000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Study Segment</th>
<th>Collision Rate</th>
<th>Fatality Rate</th>
<th>Injury Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statewide Average*</td>
<td>2.95 c/mvm</td>
<td>0.4%</td>
<td>38.3%</td>
</tr>
<tr>
<td></td>
<td>1.99 c/mvm</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

ADT = average daily traffic volume
c/mvm = collisions per million vehicle miles
* 2007 Collision Data on California State Highways, Caltrans
1.0 Project Characteristics

1.1 Land Usage

<table>
<thead>
<tr>
<th>Land Uses</th>
<th>Size</th>
<th>Metric</th>
<th>Lot Acreage</th>
<th>Floor Surface Area</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apartments Low Rise</td>
<td>79.00</td>
<td>Dwelling Unit</td>
<td>4.85</td>
<td>79,000.00</td>
<td>226</td>
</tr>
<tr>
<td>Parking Lot</td>
<td>103.00</td>
<td>Space</td>
<td>0.93</td>
<td>41,200.00</td>
<td>0</td>
</tr>
</tbody>
</table>

1.2 Other Project Characteristics

<table>
<thead>
<tr>
<th>Urbanization</th>
<th>Wind Speed (m/s)</th>
<th>Precipitation Freq (Days)</th>
<th>Climate Zone</th>
<th>Operational Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urban</td>
<td>2.2</td>
<td>75</td>
<td>4</td>
<td>2018</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Utility Company</th>
<th>Pacific Gas &amp; Electric Company</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>CO2 Intensity (lb/MWhr)</th>
<th>CH4 Intensity (lb/MWhr)</th>
<th>N2O Intensity (lb/MWhr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>641.35</td>
<td>0.029</td>
<td>0.006</td>
</tr>
</tbody>
</table>

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Actual lot acreage - affordable housing density bonus.

Construction Phase -

Woodstoves - No woodstoves or fireplaces will be constructed at the project.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Column Name</th>
<th>Default Value</th>
<th>New Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>tblArchitecturalCoating</td>
<td>EF_Nonresidential_Exterior</td>
<td>150.00</td>
<td>250.00</td>
</tr>
<tr>
<td>tblArchitecturalCoating</td>
<td>EF_Nonresidential_Interior</td>
<td>100.00</td>
<td>250.00</td>
</tr>
<tr>
<td>tblArchitecturalCoating</td>
<td>EF_Residential_Exterior</td>
<td>150.00</td>
<td>250.00</td>
</tr>
<tr>
<td>tblArchitecturalCoating</td>
<td>EF_Residential_Interior</td>
<td>100.00</td>
<td>250.00</td>
</tr>
<tr>
<td>tblFireplaces</td>
<td>FireplaceDayYear</td>
<td>3.50</td>
<td>0.00</td>
</tr>
<tr>
<td>tblFireplaces</td>
<td>FireplaceWoodMass</td>
<td>92.40</td>
<td>0.00</td>
</tr>
<tr>
<td>tblFireplaces</td>
<td>NumberNoFireplace</td>
<td>24.49</td>
<td>0.00</td>
</tr>
<tr>
<td>tblFireplaces</td>
<td>NumberWood</td>
<td>11.06</td>
<td>0.00</td>
</tr>
<tr>
<td>tblLandUse</td>
<td>LotAcreage</td>
<td>4.94</td>
<td>4.85</td>
</tr>
<tr>
<td>tblProjectCharacteristics</td>
<td>OperationalYear</td>
<td>2014</td>
<td>2018</td>
</tr>
<tr>
<td>tblWoodstoves</td>
<td>NumberCatalytic</td>
<td>0.40</td>
<td>0.00</td>
</tr>
<tr>
<td>tblWoodstoves</td>
<td>NumberNoncatalytic</td>
<td>0.40</td>
<td>0.00</td>
</tr>
<tr>
<td>tblWoodstoves</td>
<td>WoodstoveDayYear</td>
<td>10.82</td>
<td>0.00</td>
</tr>
<tr>
<td>tblWoodstoves</td>
<td>WoodstoveWoodMass</td>
<td>954.80</td>
<td>0.00</td>
</tr>
</tbody>
</table>

2.0 Emissions Summary
### 2.1 Overall Construction

#### Unmitigated Construction

<table>
<thead>
<tr>
<th>Year</th>
<th>ROG</th>
<th>NOx</th>
<th>CO</th>
<th>SO2</th>
<th>Fugitive PM10</th>
<th>Exhaust PM10</th>
<th>PM10 Total</th>
<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio-CO2</th>
<th>NBio-CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>0.4322</td>
<td>3.5720</td>
<td>2.9974</td>
<td>4.5400e-003</td>
<td>0.2381</td>
<td>0.2238</td>
<td>0.4619</td>
<td>0.1054</td>
<td>0.2095</td>
<td>0.3149</td>
<td>0.0000</td>
<td>393.2693</td>
<td>393.2693</td>
<td>0.0796</td>
<td>0.0000</td>
<td>394.9404</td>
</tr>
<tr>
<td>2018</td>
<td>1.3020</td>
<td>0.4411</td>
<td>0.4063</td>
<td>6.7000e-004</td>
<td>0.0103</td>
<td>0.0261</td>
<td>0.0364</td>
<td>2.7700e-003</td>
<td>0.0244</td>
<td>0.0272</td>
<td>0.0000</td>
<td>57.5677</td>
<td>57.5677</td>
<td>0.0128</td>
<td>0.0000</td>
<td>57.8366</td>
</tr>
<tr>
<td>Total</td>
<td>1.7343</td>
<td>4.0131</td>
<td>3.4038</td>
<td>5.2100e-003</td>
<td>0.2484</td>
<td>0.2499</td>
<td>0.4983</td>
<td>0.1082</td>
<td>0.2339</td>
<td>0.3421</td>
<td>0.0000</td>
<td>450.8370</td>
<td>450.8370</td>
<td>0.0924</td>
<td>0.0000</td>
<td>452.7770</td>
</tr>
</tbody>
</table>

#### Mitigated Construction

<table>
<thead>
<tr>
<th>Year</th>
<th>ROG</th>
<th>NOx</th>
<th>CO</th>
<th>SO2</th>
<th>Fugitive PM10</th>
<th>Exhaust PM10</th>
<th>PM10 Total</th>
<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio-CO2</th>
<th>NBio-CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>0.4322</td>
<td>3.5720</td>
<td>2.9974</td>
<td>4.5400e-003</td>
<td>0.1524</td>
<td>0.2238</td>
<td>0.3762</td>
<td>0.0596</td>
<td>0.2095</td>
<td>0.2691</td>
<td>0.0000</td>
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<td>393.2689</td>
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#### Percent Reduction

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<th>SO2</th>
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<th>Exhaust PM10</th>
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<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio-CO2</th>
<th>NBio-CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
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## 2.2 Overall Operational

### Unmitigated Operational

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<th>CO2e</th>
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### 2.2 Overall Operational

#### Mitigated Operational

| Category     | ROG  | NOx   | CO    | SO2   | Fugitive PM10 | Exhaust PM10 | PM10 Total | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio-CO2 | NBio-CO2 | Total CO2 | CH4   | N2O   | CO2e   |
|--------------|------|-------|-------|-------|---------------|--------------|------------|------------|---------------|---------------|------------|----------|---------|----------|---------|-------|-------|--------|
| Area         | 0.5440 | 6.8700e-003 | 0.5917 | 3.0000e-005 | 3.2300e-003 | 3.2300e-003 | 3.2300e-003 | 3.2300e-003 | 0.0000 | 0.9600 | 0.9600 | 9.5000e-004 | 0.0000 | 0.9801 |
| Energy       | 4.0600e-003 | 0.0347 | 0.0148 | 2.2000e-004 | 2.8100e-003 | 2.8100e-003 | 2.8100e-003 | 2.8100e-003 | 0.0000 | 134.5574 | 134.5574 | 5.0400e-003 | 1.6200e-003 | 135.1653 |
| Mobile       | 0.3165 | 0.6350 | 2.9241 | 5.9000e-003 | 0.4075 | 8.3100e-003 | 0.4158 | 0.1094 | 7.6500e-003 | 0.1170 | 0.0000 | 441.5181 | 441.5181 | 0.0194 | 0.0000 | 441.9245 |
| Waste        | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 7.3767 | 0.0000 | 7.3767 | 0.4360 | 0.0000 | 16.5316 |
| Water        | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6330 | 11.4063 | 13.0392 | 0.1682 | 4.0600e-003 | 17.2303 |
| **Total**    | **0.8646** | **0.6766** | **3.5306** | **6.1500e-003** | **0.4075** | **8.4418** | **0.4219** | **0.1094** | **9.0097** | **588.4418** | **597.4515** | **0.6295** | **5.6800e-003** | **612.4318** |

| Percent Reduction | 0.61 | 4.57 | 2.90 | 5.24 | 5.06 | 5.03 | 5.06 | 5.06 | 5.06 | 0.00 | 4.65 | 4.58 | 0.16 | 1.90 | 4.48 |

### 3.0 Construction Detail

#### Construction Phase

---

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 159,975; Residential Outdoor: 53,325; Non-Residential Indoor: 1,854; Non-Residential Outdoor: 618 (Architectural Coating – sqft)

OffRoad Equipment
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<th>Amount</th>
<th>Usage Hours</th>
<th>Horse Power</th>
<th>Load Factor</th>
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<td>HDT_Mix</td>
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3.1 Mitigation Measures Construction
## 3.2 Site Preparation - 2017

### Unmitigated Construction On-Site

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<th>ROG (tons/yr)</th>
<th>NOx (MT/yr)</th>
<th>CO (MT/yr)</th>
<th>SO2 (MT/yr)</th>
<th>PM10 Fugitive (tons/yr)</th>
<th>PM10 Total (tons/yr)</th>
<th>PM2.5 Fugitive (tons/yr)</th>
<th>PM2.5 Total (tons/yr)</th>
<th>Bio- CO2 (tons/yr)</th>
<th>NBio- CO2 (tons/yr)</th>
<th>Total CO2 (tons/yr)</th>
<th>CH4 (MT/yr)</th>
<th>N2O (MT/yr)</th>
<th>CO2e (MT/yr)</th>
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### Unmitigated Construction Off-Site

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<th>PM10 Fugitive (tons/yr)</th>
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<th>PM2.5 Fugitive (tons/yr)</th>
<th>PM2.5 Total (tons/yr)</th>
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<th>NBio- CO2 (tons/yr)</th>
<th>Total CO2 (tons/yr)</th>
<th>CH4 (MT/yr)</th>
<th>N2O (MT/yr)</th>
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## 3.2 Site Preparation - 2017

### Mitigated Construction On-Site

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<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
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### 3.3 Grading - 2017

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### 3.4 Building Construction - 2017

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# 3.4 Building Construction - 2017

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3.4 Building Construction - 2018

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3.5 Paving - 2018

**Unmitigated Construction On-Site**

| Category | ROG | NOx | CO  | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4   | N2O | CO2e |
|----------|-----|-----|-----|-----|---------------|--------------|------------|--------------|--------------|------------|-----------|----------|-----------|-----------|-------|-----|------|
| Off-Road | 0.0161 | 0.1716 | 0.1449 | 2.2000e-004 | 9.3900e-003 | 9.3900e-003 | 8.6400e-003 | 8.6400e-003 | 0.0000 | 20.3687 | 20.3687 | 6.3400e-003 | 0.0000 | 20.5019 |
| Paving   | 1.2200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total    | 0.0173 | 0.1716 | 0.1449 | 2.2000e-004 | 9.3900e-003 | 9.3900e-003 | 8.6400e-003 | 8.6400e-003 | 0.0000 | 20.3687 | 20.3687 | 6.3400e-003 | 0.0000 | 20.5019 |

**Unmitigated Construction Off-Site**

| Category | ROG | NOx | CO  | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4   | N2O | CO2e |
|----------|-----|-----|-----|-----|---------------|--------------|------------|--------------|--------------|------------|-----------|----------|-----------|-----------|-------|-----|------|
| Hauling  | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor   | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker   | 4.9000e-004 | 7.0000e-004 | 6.6800e-003 | 2.0000e-005 | 1.3500e-003 | 1.0000e-005 | 1.3600e-003 | 3.6000e-004 | 1.0000e-005 | 3.7000e-004 | 0.0000 | 1.1365 | 1.1365 | 6.0000e-005 | 0.0000 | 1.1377 |
| Total    | 4.9000e-004 | 7.0000e-004 | 6.6800e-003 | 2.0000e-005 | 1.3500e-003 | 1.0000e-005 | 1.3600e-003 | 3.6000e-004 | 1.0000e-005 | 3.7000e-004 | 0.0000 | 1.1365 | 1.1365 | 6.0000e-005 | 0.0000 | 1.1377 |
### 3.5 Paving - 2018

#### Mitigated Construction On-Site

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## 3.6 Architectural Coating - 2018

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<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio- CO2</th>
<th>NBio- CO2</th>
<th>Total CO2</th>
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<th>PM2.5 Total</th>
<th>Bio- CO2</th>
<th>NBio- CO2</th>
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<th>CO2e</th>
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### 4.0 Operational Detail - Mobile
4.1 Mitigation Measures Mobile

Integrate Below Market Rate Housing
Improve Pedestrian Network

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<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio- CO2</th>
<th>NBio- CO2</th>
<th>Total CO2</th>
<th>CH4</th>
<th>N2O</th>
<th>CO2e</th>
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4.2 Trip Summary Information

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<td>Total</td>
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<td>565.64</td>
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4.3 Trip Type Information

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<th>H-S or C-C</th>
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<th>H-W or C-W</th>
<th>H-S or C-C</th>
<th>H-O or C-NW</th>
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### 5.0 Energy Detail

#### 5.1 Mitigation Measures Energy

Exceed Title 24

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<th>CO</th>
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<th>Fugitive PM10</th>
<th>Exhaust PM10</th>
<th>PM10 Total</th>
<th>Fugitive PM2.5</th>
<th>Exhaust PM2.5</th>
<th>PM2.5 Total</th>
<th>Bio-CO2</th>
<th>NBio-CO2</th>
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<th>CO2e</th>
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5.2 Energy by Land Use - NaturalGas

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<th>CO2e</th>
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### Mitigated

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5.3 Energy by Land Use - Electricity

**Unmitigated**

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**Mitigated**

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6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed
### 6.2 Area by SubCategory

#### Unmitigated

<table>
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<th>SubCategory</th>
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### 6.2 Area by SubCategory

**Mitigated**

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<th>SubCategory</th>
<th>ROG</th>
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### 7.0 Water Detail

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7.2 Water by Land Use

Unmitigated

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Mitigated

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8.0 Waste Detail

8.1 Mitigation Measures Waste
### Category/Year

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### 8.2 Waste by Land Use

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8.2 Waste by Land Use

Mitigated

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9.0 Operational Offroad

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</table>

10.0 Vegetation
Appendix F – Toxics and Hazardous Materials


- **Harris and Lee Environmental Sciences, LLC.** *All Appropriate Inquiry - Phase I Environmental Site Assessment, 1990-2030 Burbank Avenue, Santa Rosa, CA 95407.* Santa Rosa, CA : s.n., July 28, 2015.

- **Environmental Data Resources, Inc.** *The EDR Radius Map Report, Crossroads Apartments, 1980 Burbank Avenue, Santa Rosa, CA 95407.* Milford, CT : s.n., July 15, 2011. Inquiry Number: 3124608.1s.

- **Harris & Lee Environmental Sciences, LLC.** *All Appropriate Inquiry - Phase 1 Environmental Site Assessment, 1990 & 2030 Burbank Avenue, Santa Rosa, CA 95407.* Santa Rosa, CA : s.n., September 23, 2010.

- —. *Environmental Site Assessment, Phase I Investigation, 1900 & 2030 Burbank Avenue, Santa Rosa, California, APN 125-421-018 & 019.* Santa Rosa, CA : s.n., February 26, 2002.

ROSELAND UNIVERSITY PREP CHARTER SCHOOL (60001798)
1777 WEST AVENUE
SANTA ROSA, CA 95407

SITE TYPE: SCHOOL INVESTIGATION
STATUS: NO FURTHER ACTION
All Appropriate Inquiry-
Phase 1 Environmental Site Assessment

1990-2030 Burbank Avenue, Santa Rosa, CA 95407
APN 125-421-018 and -019

Prepared for:
Burbank Housing Development Corp
790 Sonoma Avenue
Santa Rosa, California 95403

Prepared by:
Harris and Lee Environmental Sciences, LLC

Walter Beach, REPA 705676

Robert S. Harris, REPA 976999

July 28, 2015
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Exhibit B – Assessor’s Parcel Map
Exhibit C – U.S.G.S 7.5-Minute Topographic Map
Exhibit D – Site Photographs
Exhibit E – Historic Topographic and Aerial Photographs
Exhibit F – Environmental Data Resources Reports
Exhibit G – Regulatory Records Documentation
1.0 EXECUTIVE SUMMARY

Pursuant to the request and assignment of Burbank Housing Development Corporation, Harris and Lee Environmental Sciences, LLC (HLENV) has performed a Phase I Environmental Site Assessment on the property identified as 1990-2030 Burbank Avenue, Santa Rosa, CA 95407, Sonoma County Assessor’s Parcel Number 125-421-018 and -019 (“Subject Property”), which is located in the City Limits of Santa Rosa in Sonoma County, California.

The purpose of this All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation is to provide information as to the Recognized Environmental Conditions on or near the Subject Property noted above. Recognized Environmental Conditions are defined with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. This Environmental Site Assessment follows the guidelines established by the American Society for Testing and Materials (ASTM) in the document entitled “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process” and designated E1527-13. As such, this assessment is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser protection as noted in CERCLA and the California Health and Safety Code; that is the “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice as defined at 42 U.S.C. 9601(35)(B).

The Scope of Service for this Phase I Environmental Site Assessment consists of four overall tasks:

- **Task I:** Research and review of regulatory information
- **Task II:** A site reconnaissance of subject and nearby property
- **Task III:** Interviews of persons with knowledge of subject and surrounding property
- **Task IV:** Preparation of the final Environmental Site Assessment report

Site Description and Current Use

The Subject Property is located in the City Limits of Santa Rosa in Sonoma County. It is approximately 0.92 miles west of U. S. Highway 101 and approximately 1.77 miles south-south-west of the City Center of Santa Rosa. The general characteristic of the property’s vicinity is predominately single family residences with a school to the east.

The Subject Property consists of two adjacent parcels that are both rectangular in shape. The two parcels are each approximately 2.50 acres in area for a combined site of 5.0 acres in area. The site is undeveloped land with no structures. The site is covered by annual grasses, weeds, and several oak trees. Much of this vegetation was dry due to the time of year.
Adjoining Properties Use
- North: Single Family Residence
- East: Single Family Residence and Public School
- South: Single Family Residence
- West: Single Family Residence

Standard and Additional Environmental Records Search
The Environmental Radius Report (attached to this document as a component of Exhibit F) did not identify any sites of concern.

Physical Setting
The elevation of the Subject Property is at 125 feet above sea level with the general topographic gradient towards the west-southwest. Soils consist of poorly drained soils with very slow infiltration rates. The property is outside the 500-year and 100-year flood zones.

Historical and Present Use of Subject Property
The Subject Property was planted with an orchard as far back as at least 1942. The orchard was removed some time between 1965 and 1982. Since 1982, the property has been undeveloped and covered by annual grasses, weeds, and several oak trees. Much of this vegetation was dry due to the time of year.

Recognized Environmental Conditions
In the course of performing this All Appropriate Inquiry-Environmental Site Assessment, Phase 1 Investigation evidence of Recognized Environmental Conditions was not identified on the Subject Property.

- **Controlled Recognized Environmental Conditions**
  No Controlled Recognized Environmental Conditions were identified in connection with the Subject Property.

- **Vapor Encroachment Conditions**
  No Vapor Encroachment Conditions were identified in connection with the Subject Property.

Historical Recognized Environmental Conditions
No Historic Recognized Environmental Conditions were identified in connection with the Subject Property.

Activity and Use Limitations
No Activity and Use Limitations were identified in connection with the Subject Property.

De Minimis Conditions
No de minimus conditions were found for the Subject Property.
Data Gaps
No data gaps were encountered during the performance of this investigation.

Summary of Findings
- The Subject Property consists of two parcels that are both approximately rectangular in shape. The two parcels are each approximately 2.50 acres in area for a combined site of 5.0 acres in area.
- The site was planted with an orchard as far back as at least 1942.
- The orchard was removed some time between 1965 and 1982.
- Since 1982, the property has been undeveloped and covered by annual grasses, weeds, and several oak trees. Much of this vegetation was dry due to the time of year.
- There have never been any structures on the property.

Conclusions
Harris and Lee Environmental Sciences, LLC has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527 of the property designated as Sonoma County Assessor’s Parcel Number 125-421-018 and -019 with the physical address of 1990-2030 Burbank Avenue, Santa Rosa, CA 95407, the property. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

Opinion
Harris and Lee Environmental Sciences, LLC reminds the client that it is always prudent to maintain care in handling chemicals and any hazardous materials in any building or any property. It is pertinent to be reminded that the building / property owner is ultimately responsible for the environmental compliance that occurs in any building or on any property. Thus, if a tenant is not in compliance, the owner, who has nothing to do with the tenant's operations, can be held responsible.

Recommendations
Harris and Lee Environmental Sciences, LLC recommends that no further environmental investigation is warranted on the Subject Property given the findings of this Phase I Environmental Site Assessment.

This report is governed by the Limitations set forth in Sections 2.4 and 2.5 of this report. This Executive Summary is not to be used without the accompaniment of the entire report.
2.0 INTRODUCTION

2.1 Purpose

Pursuant to the request and assignment of Burbank Housing Development Corporation, Harris and Lee Environmental Sciences, LLC (HLENV) has performed a Phase 1 Environmental Site Assessment on the property identified as 1990-2030 Burbank Avenue, Santa Rosa, CA 95407, Sonoma County Assessor’s Parcel Number 125-421-018 and -019, which is located in the City Limits of Santa Rosa in Sonoma County, California.

The purpose of this All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation is to provide information as to the Recognized Environmental Conditions on or near the Subject Property noted above. Recognized Environmental Conditions are defined with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. This Environmental Site Assessment follows the guidelines established by the American Society for Testing and Materials (ASTM) in the document entitled “Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process” and designated E-1527-13. As such, this assessment is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser protection as noted in CERCLA and the California Health and Safety Code; that is the “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice as defined at 42 U.S. C. 9601(35)(B).

2.2 Definition of Terms

This section provides definitions and descriptions of terms used in this report.

**Activity and Use Limitations** - legal or physical restrictions or limitations on the use of, or access to, a site or facility:(1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.

**Controlled Recognized Environmental Condition** - a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).
De Minimis Condition - a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

Data Gap - a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.).

Historical Recognized Environmental Condition - a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

Recognized Environmental Condition – “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.” (ASTM E1527-13)

Pursuant to the ASTM E-1527-13 Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Recognized Environmental Conditions do not include Controlled Substances, Asbestos Containing Materials, Lead-base paint, Mold, Radon or other non-CERCLA related conditions.

Vapor Encroachment Condition - the presence or likely presence of chemical vapors in the sub-surface of the Subject Property caused by the release of vapors from contaminated soil or groundwater either on or near the Subject Property. A vapor encroachment condition may be considered a recognized environmental condition or a de minimus condition.

2.3 Scope of Services

The Scope of Services for this All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation consists of four overall tasks:

Task I: Research and review of regulatory information
Task II: A site reconnaissance of subject and nearby properties
Task III: Interviews of persons with knowledge of subject and surrounding property
Task IV: Preparation of the final Environmental Site Assessment report

The Scope of Services for this All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation follows the Standard Practice for Environmental Site Assessments designated as E-1527-13 of the ASTM. Accordingly, the All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation is targeted towards the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined in 42 USC 9601(35)(B) is applied. However, an evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this assessment.

The Scope of Services includes observations for Recognized Environmental Conditions, as well as review of information that can be obtained from regulatory files that is reasonably ascertainable within reasonable time and cost constraints. Accordingly, it cannot be guaranteed that all files are examined or that every contingency is investigated. These limitations are in conformance with the stated guidelines of ASTM E1527-13.

The Records Review includes review of files for the Subject Property available at state, county and local offices or websites, as listed in Section 5.1 of this report. Records were reviewed for adjacent properties, as appropriate, as required by ASTM E1527-13. In some cases the status of a site is determined from telephone interviews of staff persons of these offices.

The potential for contaminated vapor migration, as well as soil and groundwater contamination, on the Subject Property is considered during evaluation of potentially relevant releases, as required by ASTM 1527-13. Releases reported with a contaminated groundwater plume within a critical distance from the Subject site were reviewed to evaluate if the reported release could constitute a potential vapor encroachment condition to the Subject Property. The critical distance between the Subject Property and a contaminated plume is defined by ASTM E2600-10 as 30 feet for dissolved petroleum hydrocarbons, and 100 feet for free-product petroleum hydrocarbons and non-petroleum chemicals of concern.

The site reconnaissance consists of the Subject Property and the identification of nearby properties. Interviews are conducted of persons associated with the Subject Property and reasonably available at the time of the site reconnaissance, and on occasion, by telephone when such interviews are possible. The report follows the Standard Practice of ASTM E-1527-13.
The Scope of Services for this All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation does not include analysis of Controlled Substances (CS) or Asbestos Containing Materials (ACM). Neither does the Scope of Services include analysis of the building constituents for Lead based paint or other non-CERCLA related conditions. If there is suspicion that these substances or conditions may be present, professionals licensed to assess their presence should be contacted. Harris and Lee Environmental Sciences, LLC can assist, if requested.

2.4 Significant Assumptions

The All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation is intended to assess the environmental conditions of a specific parcel of commercial real estate. It is intended to constitute all appropriate inquiry for purposes of the CERCLA liability, i.e., innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on CERCLA liability. This Phase 1 is intended to reflect a commercially prudent and reasonable inquiry designed to identify recognized environmental conditions in connection with a property.

2.5 Limitations and Exceptions

The Scope of Services performed to complete this All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation was limited in nature. While we consider work of this type to be valuable in the preliminary evaluation of potential hazardous materials or waste at the site, we also must alert the Client that this study may not reveal hazardous materials releases that have occurred. Also, the site conditions can change with time, and our assessment was not intended to predict future site conditions. Because of the limited nature of this assessment, this report is not a risk assessment and the Scope of Services does not include a determination of the extent of business environmental risk nor the public health impact of, known or suspected hazardous materials or wastes. This assessment does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on liability protections under CERCLA. Furthermore, this assessment does not address requirements of state or local laws or federal laws other than the all appropriate inquiry provisions of the landowner liability protections. Client(s) are cautioned that federal, state and local laws may impose environmental assessment obligations that are beyond the scope of the all appropriate inquiry provisions of this assessment.

This service has been performed in accordance with generally accepted environmental investigation practices for similar investigations conducted at this time and in this geographic area. No other guarantees or warranties, expressed or implied are provided.

It is understood by the parties hereto that the Client who has requested this assessment will use the assessment (in addition to other information) to provide information to a
lender, investors in the property, for the purposes of refinancing or purchasing said property or to satisfy regulatory agency requirements. Consultant intends no other use or disclosure. Client agrees to hold Consultant harmless for any inverse condemnation or devaluation of said property that may result if the Consultant’s report or information generated is used for other purposes. Also, this report is issued with the understanding that it is to be used only in its entirety.

2.6 User Reliance

Only Burbank Housing Development Corporation, Crossroad Apartments, LLC, Crossroads, L.P., California Department of Housing and Community development, City of Santa Rosa, Sonoma County Community Development Commission, Wells Fargo Bank, California Community Reinvestment Corporation, the financing institution(s) providing financing for the purchase and/or redevelopment of the property and any pertinent regulatory agencies may rely upon this report. No other person or entity may rely upon the report without written consent of Harris and Lee Environmental Sciences, LLC.

2.7 Involved Parties

The following are the parties involved in this proposed transaction on the property identified as Sonoma County Assessor’s Parcel Number 125-421-018 and -019:

- Burbank Housing Development Corporation - listed current owner
- Crossroads, L.P. - future owner
- California Department of Housing and Community development, City of Santa Rosa, Sonoma County Community Development Commission, Wells Fargo Bank, California Community Reinvestment Corporation - financing institutions

3.0 SITE DESCRIPTION

3.1 Site Locations and Description

Exhibit A is a vicinity map of the general area of the Subject Property. Exhibit B presents an Assessor’s Parcel Map for the Subject Property having Sonoma County Assessor’s Parcel Number 125-421-018 and -019. The legal description of the Subject Property may be found in the title report, which is not included in this report.

Using the Earth’s Grid System, the coordinates of the Subject Property location are:

- Latitude (North): N 38.4184000° - 38° 25’ 6.24”
- Longitude (West): W 122.7326000° - 122° 43’ 57.36”
- Elevation: 125 feet above sea level
Table 3.1: Subject Property Information

<table>
<thead>
<tr>
<th>Street Address</th>
<th>APN</th>
<th>Recorded Owner</th>
<th>Size</th>
<th>Structure Year built</th>
<th>Use</th>
<th>Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>2030 Burbank Avenue, Santa Rosa, CA 95407</td>
<td>125-421-018</td>
<td>Burbank Housing Development Corporation</td>
<td>2.50</td>
<td>---</td>
<td>Vacant Land</td>
<td>RR</td>
</tr>
<tr>
<td>1990 Burbank Avenue, Santa Rosa, CA 95407</td>
<td>125-421-019</td>
<td>Burbank Housing Development Corporation</td>
<td>2.50</td>
<td>---</td>
<td>Vacant Land</td>
<td>RR</td>
</tr>
</tbody>
</table>

3.2 Site and Vicinity General Characteristics

The Subject Property is located in the City Limits of Santa Rosa in Sonoma County. It is approximately 0.92 miles west of U. S. Highway 101 and approximately 1.77 miles south-south-west of the City Center of Santa Rosa. The general characteristic of the property’s vicinity is predominately single family residences with a school to the east.

The Subject Property’s zoning designation is RR. RR stands for Rural Residential.

3.3 Current Use of the Property

Current use of the Subject Property is vacant land.

3.4 Descriptions of Current Improvements

3.4.1 Structures

There are no structures located on the Subject Property:

3.4.2 Roads

The Subject Property is bounded by Burbank Avenue to the west. Access to the property is via a driveway from Burbank Avenue or via a foot path from Liana Drive on the south-east corner of the property.

3.4.3 Sewage Disposal

Municipal sewage services are potentially available to the Subject Property.

3.4.4 Water Supply

Municipal water services are potentially available to the Subject Property.
3.4.5 Heating and cooling systems

Not applicable.

3.4.6 Utilities

Pacific Gas and Electric Company electricity and gas service is potentially available to the Subject Property.

3.5 Current Uses of the Adjoining Properties

According to the 40 CFR 312.10, “adjoining properties are defined as any real property or properties the border of which is (are) shared in part or in whole with that of the Subject Property, or that would be shared in part or in whole with that of the Subject Property but for a street, road, or other public thoroughfare separating the properties.”

- **North**: Single Family Residence
- **East**: Single Family Residence and Public School
- **South**: Single Family Residence
- **West**: Single Family Residence

4.0 USER PROVIDED INFORMATION

The purpose of this section is to identify general tasks that will help identify the possibility of recognized environmental conditions in connection with the Subject Property. The general tasks are 1) Searches for Environmental Liens; 2) Valuation Reduction for Environmental Issues; and 3) Assessments of Specialized Knowledge. These tasks do not require technical expertise and Environmental Professionals do not normally perform these tasks. These tasks are the responsibility of the client. However, the results of these tasks must be made available for the Environmental Professionals to review; if none are provided they will be identified as “data gaps”. The Environmental Professional(s) are required to review these items in order to formulate an opinion regarding the obviousness of the presence or likely presence of contamination at the property or identify them as missing “data gaps.”

4.1 Searches for Environmental Liens

Searches for environmental cleanup liens against the Subject Property that are filed or recorded under federal, tribal, state or local law as required under 40 CFR Part 312 Section 312.25.

40 CFR Part 312 Section 312.25(b) states: “All information collected regarding the existence of such environmental cleanup liens associated with the property must be provided to the environmental professional.”
Preliminary Title Report
North American Title Company, 401 Davis Street, Suite B, Vacaville, California, provided a contemporary preliminary title report. The report Order Number is 1306865 and is dated February 10, 2015.

The preliminary title report did not identify any environmental liens in connection with the Subject Property.

4.2 Valuation Reduction for Environmental Issues

An assessment of the relationship of the purchase price to the fair market value of the Subject Property, assuming there is no contamination of the property, is required under 40 CFR Part 312 Section 312.29 to maintain the innocent landowner defense. The sections from the federal document are reproduced (with edits for clarity) following:

(a) Persons to whom this part is applicable must consider whether the purchase price of the Subject Property reasonably reflects the fair market value of the property, assuming there is no contamination of the property;

(b) Persons who conclude that the purchase price of the Subject Property does not reasonably reflect the fair market value of that property, if the property were not contaminated, should consider whether or not the differential in purchase price and fair market value is due to the presence of releases or threatened releases of hazardous substances.

An appraisal of the Subject Property was not available for review; however, anecdotal information gained during interviews indicates that there is no value reduction for environmental reasons.

4.3 Assessments of Specialized Knowledge

Assessments of any specialized knowledge or experience on the part of the purchaser or landowner is required by 40 CFR Part 312 Section 312.28 to maintain the innocent landowner defense. The sections from the federal document are reproduced (with edits for clarity) following:

(a) Persons to whom this part is applicable must take into account, their specialized knowledge of the Subject Property, the area surrounding the Subject Property, the conditions of adjoining properties, and any other experience relevant to the inquiry, for the purpose of identifying conditions indicative of releases or threatened releases at the Subject Property.

(b) All appropriate inquiries are not complete unless the results of the inquiries take into account the relevant and applicable specialized knowledge and experience of the persons responsible for undertaking the inquiry.
Specialized knowledge relating to the Subject Property was obtained via interviews of persons with knowledge of the status and history of the property.

5.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the Subject Property. This is one of the Criteria required under the All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation.

5.1 Standard and Additional Environmental Record Sources

The Standard Environmental Record Sources and the Additional Environmental Record Sources were obtained through a computer data bank search company, Environmental Data Resources of Milford, Connecticut. Computer data bank searches for active sites can be useful in locating sites that may have the potential to adversely impact the subject site. It is important to keep in mind that computer database searches provide general overview data and may not be precise in the data that is presented. Consequently, an investigator needs additional familiarity with active sites to properly interpret the data that is provided.

The Environmental Radius Report is included in Exhibit F. This report accessed a large number of active federal, state and local databases—some are Standard Environmental Record Sources (Section 8.2.1 ASTM E-1527-13) and others are Additional Environmental Record Sources that provide additional data and supplement the Standard Environmental Record Sources. A comprehensive listing of government records searched is listed in the Radius Report and is not repeated in the text.

EDR Database Search

Subject Property: The Subject Property does not appear on any standard record sources or any additional environmental record sources searched and reported upon in the Radius Report.

Neighboring Properties: Summary of relevant findings of the database search within the minimum radius search distance of the property as specified by ASTM E-1527-13, Section 8.2.1 are summarized in the Table below.

<table>
<thead>
<tr>
<th>U.S. Federal Databases</th>
<th>ASTM Criteria Search Distance (miles)</th>
<th>Number of Properties within the Search Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPL</td>
<td>1.0</td>
<td>0</td>
</tr>
<tr>
<td>Delisted NPL</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>CERCLIS</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>CERCLIS NFRAP</td>
<td>0.5</td>
<td>0</td>
</tr>
</tbody>
</table>
### U.S. Federal Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>ASTM Criteria Search Distance (miles)</th>
<th>Number of Properties within the Search Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCRA CORRACTS facilities</td>
<td>1.0</td>
<td>0</td>
</tr>
<tr>
<td>RCRA non-CORRACTS TSD facilities</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>Generators list: RCRA_LQG</td>
<td>Property; adjoining property</td>
<td>0</td>
</tr>
<tr>
<td>Generators list: RCRA_SQG</td>
<td>Property; adjoining property</td>
<td>0</td>
</tr>
<tr>
<td>Federal Institutional / Engineering Control</td>
<td>Property</td>
<td>0</td>
</tr>
<tr>
<td>Federal ERNS List</td>
<td>Property</td>
<td>0</td>
</tr>
</tbody>
</table>

### State, Tribal and Local Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>ASTM (miles)</th>
<th>Search Distance</th>
<th>Properties within the Search Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIROSTOR¹</td>
<td>1.0</td>
<td>0.5</td>
<td>3</td>
</tr>
<tr>
<td>SLIC</td>
<td>0.5</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>LUST</td>
<td>0.5</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>SWF/LS</td>
<td>0.5</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>AST²</td>
<td>Property; adjoining property</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>UST²</td>
<td>Property; adjoining property</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Notify 65⁵</td>
<td>Property; adjoining property</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Old Databases³</td>
<td>Property; adjoining property</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Note 1:** The following databases are part of Envirostor under DTSC; they are not listed individually: Cal-Sites (State equivalent to NPL is AWP, BE), Hist. Cal-Sites, Response, Institutional & Engineering Controls, VCP and Brownfield sites.

**Note 2:** The following databases are discussed only if the listed sites are on the property or on adjoining properties: UST, AST, and Notify 65.

**Note 3:** The following databases are old and are not updated; unless the sites listed are on the Subject Property or adjoining properties, they are not discussed; the databases include: Cortese; CA FID; HIST UST; & SWEEPS.

There are several sites listed within the standard ASTM search distance of 1-mile of the Subject Property. A brief review of the listed sites reveals that they are not likely threats for the Subject Property due to one or more of the following reasons: listing database not relevant, sufficient distance from Subject Property, location relative to site topography and ground water flow direction, and the status of the listed site (e.g., closed, contamination characterized, contamination under remediation, etc.)

The Environmental Radius Report is attached to this report. A summary of those sites in the report considered pertinent for the Subject Property is presented below in Section 5.4.

### Other Environmental Record Sources

To enhance and supplement the Environmental Radius Report data bank searches for active sites, local records and / or additional state or tribal records were independently searched through their various websites. These records are reasonably ascertainable, and are sufficiently useful, accurate and complete in light of the objective of the records review. Other Environmental Record Sources contacted for information pertaining to the subject and nearby properties were as follows:
Unified Program
The Unified Program is the consolidation of six state environmental programs into one program under the authority of a Certified Unified Program Agency. These can be a county, city or JPA (Joint Powers Authority). This program was established under the amendments to the California Health and Safety Code made by SB 1082 in 1994. The six programs are the Hazardous Materials Business Plan/Emergency Response Plan, Hazardous Waste, Tiered Permitting, Underground Storage Tanks, Aboveground Storage Tanks (SPCC only) and the Uniform Fire Code Hazardous Materials Management Plan.

A CUPA, or Certified Unified Program Agency is a local agency that has been certified by Cal EPA to implement the six state environmental programs within the local agency's jurisdiction.

The Santa Rosa City Fire Department and the County of Sonoma Department of Environmental Health are the designated local agency for the Subject Property.

No additional records of environmental significance were found for the Subject Property.

5.2 Physical Setting

5.2.1 Topography

Exhibit C is the U. S. Department of Interior, Geological Survey Quadrangle 7.5-Minute Series topographic map. The Subject Property lies at an elevation of approximately 125 feet above mean sea level. The general topographic gradient at the Subject Property is generally west-southwest. Surface topography may be indicative of the direction of surficial groundwater flow.

5.2.2 Flood Insurance Rate Map

According to FEMA Flood Panel Maps, the Subject Property is outside the 500-year flood zone and the 100-year flood zone.
5.2.3 Geologic and Hydrogeologic Setting

Soil Conditions
The U.S. Department of Agriculture’s (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Table 5.3.3: Soil types found near Subject Property

<table>
<thead>
<tr>
<th>Soil series</th>
<th>Texture</th>
<th>Hydrologic Group</th>
<th>Drainage Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearlake series</td>
<td>clay</td>
<td>Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.</td>
<td>Poorly drained</td>
</tr>
</tbody>
</table>

Note: The definition of a hydric soil is a soil that formed under conditions of saturation, flooding or ponding long enough during the growing season to develop anaerobic conditions in the upper part. The concept of hydric soils includes soils developed under sufficiently wet conditions to support the growth and regeneration of hydrophytic vegetation.

Groundwater Flow Direction
EDR GeoCheck-Physical Setting Source Summary provides the following site-specific hydrogeologic data.

Search Radius: 1.25 miles
Location Relative to TP: 1/2 - 1 Mile NW
Site Name: Acme Auto Wreckers
Site EPA ID Number: CAD98364998
Groundwater Flow Direction: Generally SW toward the Laguna de Santa Rosa a tributary of the Russian River, but the gradient in the site area has varied to the W and NW
Inferred Depth to Water: 15 feet

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

Nineteen sites with groundwater flow directions were identified within a radius of one mile of the Subject Property. The groundwater flow directions are reported to be sout, southwest and northwest.
5.3 Results of Site History and Land Use Review

The objective of consulting historical sources is to develop a history of the previous uses of the Subject Property and surrounding area in order to identify the likelihood of past uses having led to recognized environmental conditions. All obvious uses of the property must be identified from the present back to the property’s first developed use or back to 1940, whichever is earlier (§ 8.3.2 ASTM 1527-13). The Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E1527-13) requires a review of reasonably ascertainable standard historical sources. Reasonably ascertainable is defined by ASTM as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable. The following standard historical sources for the Subject Property were reviewed: Sanborn Fire Insurance Maps, City Directories, County Records Review, personal interviews, historical aerial photographs and previous environmental investigations.

5.3.1 Sanborn Fire Insurance Maps

Environmental Data Resources of Milford, Connecticut investigated the historic Sanborn Fire Insurance Maps. The inquiry Number is 4354129.3.

No coverage was reported.

The report is attached to this Environmental Site Assessment as a component of Exhibit F.

5.3.2 Historical Topographic Maps

Environmental Data Resources of Milford, Connecticut performed a search for historical topographic maps. The topographic maps are presented in the EDR report number 4354129.4. The report is reproduced in Exhibit E of this report.

The historical topographic maps report did not reveal any significant potential liability resulting from past activities.

5.3.3 Aerial Photographs

Environmental Data Resources of Milford, Connecticut performed a search for historic aerial photographs. The photographs are presented in the EDR report number 4354129.5. The report is reproduced in Exhibit E of this report. A synopsis of the aerial photography is presented in Table 5.4.3.
### Table 5.4.3: Description of the Subject Property from aerial photographs

<table>
<thead>
<tr>
<th>DATE</th>
<th>ON SITE DESCRIPTION</th>
<th>OFFSITE DESCRIPTION</th>
</tr>
</thead>
</table>
| 1942  | Site appears to be covered with an orchard. | **North:** Predominately developed with orchards. There are a few rural residences and some roads.  
**East:** Predominately developed with orchards.  
**South:** A mix of orchards and undeveloped land. A few roads appear further south.  
**West:** Developed with a mix of orchards, undeveloped land and rural residences. |
| 1952  | Site is covered with an orchard. | **North:** Predominately developed with orchards. There are a few rural residences and some roads.  
**East:** Predominately developed with orchards. A few rural residences and roads appear further east.  
**South:** A mix of orchards and undeveloped land. There are a few roads and rural residences further south.  
**West:** Developed with a mix of orchards, undeveloped land and rural residences. |
| 1968  | Site is covered with an orchard. | **North:** Most of the orchards are gone. Now developed with residences and roads.  
**East:** Most of the orchards are gone. Now developed with residential housing developments.  
**South:** Immediately south most of the orchards are gone and it residences appear. Further south are some orchards.  
**West:** Developed with a mix of orchards, undeveloped land and rural residences. |
| 1973  | The site is now a mix of undeveloped land with a few signs of the prior orchard remaining. | **North:** Developed with a mix of residences, trees, undeveloped land and orchards.  
**East:** Developed with residential housing developments with a few spots of undeveloped land.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is undeveloped land.  
**West:** Developed with a mix of orchards, undeveloped land and rural residences. |
| 1982  | The site is undeveloped land. No more orchards or evidence of orchards remain on the site. | **North:** Developed with a mix of residences, trees, undeveloped land and orchards.  
**East:** Developed with residential housing developments with a few spots of undeveloped land.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is undeveloped land.  
**West:** Developed with a mix of orchards, undeveloped land and rural residences. |
| 1985  | The site is undeveloped land. | **North:** Developed with a mix of residences, trees, undeveloped land and orchards.  
**East:** Developed with residential housing developments. The spot of undeveloped land is now a school.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is undeveloped land.  
**West:** Developed with a mix of orchards, undeveloped land and rural residences. |
<table>
<thead>
<tr>
<th>DATE</th>
<th>ON SITE DESCRIPTION</th>
<th>OFFSITE DESCRIPTION</th>
</tr>
</thead>
</table>
| 1993 | The site is undeveloped land. | **North:** Developed with a mix of residences, trees, undeveloped land and orchards. A housing development appears to the north-west.  
**East:** Developed with residential housing developments and a school.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is undeveloped land.  
**West:** Developed with a mix of orchards, undeveloped land and rural residences. |
| 1998 | The site is undeveloped land. | **North:** Developed with a mix of residences, trees, undeveloped land and orchards. There are housing developments to the north-west and north-east.  
**East:** Developed with residential housing developments and a school.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is undeveloped land.  
**West:** Developed with a mix of orchards, undeveloped land and rural residences. |
| 2005 | The site is undeveloped land. | **North:** Developed with a mix of residences, trees and undeveloped land with housing developments to the north-west and north-east.  
**East:** Developed with residential housing developments and a school.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is now developed with a school.  
**West:** Developed with a mix of undeveloped land and housing developments. |
| 2006 | The site is undeveloped land. | **North:** Developed with a mix of residences, trees and undeveloped land with housing developments to the north-west and north-east.  
**East:** Developed with residential housing developments and a school.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is developed with a school.  
**West:** Developed with a mix of undeveloped land and housing developments. |
| 2009 | The site is undeveloped land. | **North:** Developed with a mix of residences, trees and undeveloped land with housing developments to the north-west and north-east.  
**East:** Developed with residential housing developments and a school.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is developed with a school.  
**West:** Developed with a mix of undeveloped land and housing developments. |
### Table 5.4.3: Description of the Subject Property from aerial photographs

<table>
<thead>
<tr>
<th>DATE</th>
<th>ON SITE DESCRIPTION</th>
<th>OFFSITE DESCRIPTION</th>
</tr>
</thead>
</table>
| 2010 | The site is undeveloped land. | **North:** Developed with a mix of residences, trees and undeveloped land with housing developments to the north-west and north-east.  
**East:** Developed with residential housing developments and a school.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is developed with a school.  
**West:** Developed with a mix of undeveloped land and housing developments. |
| 2012 | The site is undeveloped land. | **North:** Developed with a mix of residences, trees and undeveloped land with housing developments to the north-west and north-east.  
**East:** Developed with residential housing developments and a school.  
**South:** Immediately south is a mix of undeveloped land and residences. Further south is developed with a school.  
**West:** Developed with a mix of undeveloped land and housing developments. |

#### 5.3.4 City Directory

Environmental Data Resources of Milford, Connecticut investigated historic City Directory; this report is documented in the City Directory Abstract Report with Inquiry Number 4354129.6. It is included in this report as a component of Exhibit F.

Business directories including city, cross-reference and telephone directories were reviewed, if available, at approximately five-year intervals for the years spanning 1930 through 2013. (These years are not necessarily inclusive.)

The Subject Property had no listings.

These listings are consistent with usage as undeveloped land. The listings do not indicate an issue of environmental concern.

Adjacent Property listings were predominantly residential listings with multiple daycares and schools. These sites do not indicate issues of environmental concern unless a record of contamination (such as listings in regulatory records) is found. Any such sites are discussed in Section 5.1.

#### 5.3.5 Local Records Review

Historical Permit records for the Subject Property were researched at the City of Santa Rosa Permit Department. This review included the Building and Zoning Records.
No Permit history of environmental impact related to the Subject Property at Sonoma County Assessor’s Parcel Number 125-421-018 and -019 was found.

5.3.6 Synopsis of Previous and Current Environmental Investigations

Two current environmental investigations prior to this report were identified and are as follows:

A Phase I Environmental Site Assessment was conducted by Harris & Lee Environmental Sciences, LLC on September 23, 2010. The Phase I found the Subject Property consisted of two undeveloped parcels. The Phase I found evidence of one Recognized Environmental Condition as follows:

- The New Roseland Area Elementary School at 2611 Dutton Meadow is located approximately 972 feet north-northwest of the Subject Site. The potential contaminants at the site are heavy metals and polynuclear aromatic hydrocarbons. Surface sediments and surface water are being investigated, however the contamination is not defined and the investigation is not complete.¹

A Phase I Environmental Site Assessment was conducted by Harris & Lee Environmental Sciences, LLC in 2002. The Phase I Environmental Site Assessment found no evidence of Recognized Environmental Conditions.

5.4 Discussion of Records Review

Subject Property
Based on the review of the database report and other records review, there are no issues that constitute a recognized environmental condition for the Subject Property. This opinion is based on current and available information.

Surrounding Properties
Sites considered potentially relevant to environmental conditions on the Subject Property based on the records review are discussed below. Sites not mentioned are judged insignificant for the Subject Property. In some cases, rather than engage in an exhaustive discussion of the various sites, these are grouped together in a summary discussion.

¹ As of August 22, 2012, the school was cleared for occupancy with a determination that remaining contamination in the southern portion of the parcel does not pose any immediate threat to occupants of the school. The southern portion of the parcel is approved to undergo additional removal activities and confirmation sampling before the site can be closed.
Summary
Based on the review of the open and active surrounding properties listed on the database report and other records review, there are none that constitute a recognized environmental condition for the Subject Property. This opinion is based on current and available information.

6.0 SITE RECONNAISSANCE

On July 27, 2015 an environmental professional performed a site reconnaissance of the Subject Property and nearby properties. The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the property. It is not an environmental compliance audit; this process does not determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations.

Photo-documentation of the property is presented in Exhibit D of this report.

6.1 Methodology and Limiting Conditions

The method used in conducting the site reconnaissance consisted of walking the perimeter of the Subject Property and inspecting as closely as possible the features of the property. Visual observations of nearby properties were performed in an effort to identify conditions that potentially could negatively impact the subject site.

6.2 General Site Setting

The general site setting is an undeveloped field with no structures. The field is covered by annual grasses, weeds and some oak trees. Nearby properties have been developed over the past 60 years with subdivisions of single family residential developments located to the east. One adjoining property is a public school. The remainder of nearby properties are predominantly rural residential in use.

6.3 Subject Property

The Subject Property consists of two adjacent parcels that are both rectangular in shape. The two parcels are each approximately 2.50 acres in area for a combined site of 5.0 acres in area. The parcels are as follows:

- APN 125-421-018 - associated street address is 2030 Burbank Avenue. This is the southernmost parcel.
- APN 125-421-019 - associated street address is 1990 Burbank Avenue. This is the northernmost parcel.
The site is undeveloped land with no structures. The site is covered by annual grasses, weeds, and several oak trees. Much of this vegetation was dry due to the time of year. The grasses are pressed down in the middle of the parcel making a walking path from the western to eastern side of the parcel. There is a minimal amount of trash located on the site.

The western side of the parcel is fenced in and has a paved walking path along the western edge that run from north to south. The eastern side of the parcel has trees along the eastern edge.

Access to the property is via a paved driveway from Burbank Avenue on the western side or via a footpath from Liana Drive on the south-eastern corner of the site.

No water wells are located on the Subject Property.

No underground storage tanks were evident on the Subject Property.

No excessive staining or distressed vegetation was evident on the Subject Property.

In the course of the inspection no indications of recognized environmental conditions were observed.

### 6.4 Adjacent Properties

- **North:** Single Family Residence
- **East:** Single Family Residence and Public School
- **South:** Single Family Residence
- **West:** Single Family Residence

### 7.0 INTERVIEWS

#### 7.1 Interviews with Past and Present Owners, Operators, and Occupants

The present owner of the Subject Property is Mr. Pascal Sisich. The Subject Property has never been occupied and there have never been any structures on the property.

#### 7.2 Interviews with Local Government Officials

Individuals were interviewed at various city and county offices that were investigated for this report.

#### 7.3 Interviews with Others

Various individuals encountered while conducting the site reconnaissance of the site were interviewed. These brief interviews were conducted in a casual conversational
manner in an attempt to determine if there are any historic factors that would indicate an impact on the property.

8.0 VAPOR ENCROACHMENT SCREENING

This section presents a Vapor Encroachment Screening (VES) of the Subject Property to determine whether a Vapor Encroachment Condition (VEC) is present or likely to be present on the Subject Property. The VES was performed in conjunction with this Phase I ESA for the Subject Property in general accordance with Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions adopted by ASTM International in Method E2600-10.

The VES process as described in ASTM Standard E2600-10 is a two-tiered screening process. Tier 1 VES focuses on known or suspected contaminated properties located within the area of concern (AOC). The ASTM Standard E2600-10 defines the AOC for petroleum release sites as the area within one-tenth mile (528 feet) around the Subject Property. For non-petroleum release sites (for example, solvent release sites), the AOC is defined as the area within one-third mile (1,760 feet) around the Subject Property. In accordance with the Tier 1 VES process, a search distance test was performed to determine whether known or suspected contaminated properties are located within the AOC.

Tier 2 VES uses a plume test and critical distance determination to evaluate whether vapors from the contaminated property might migrate and encroach on the Subject Property. The critical distance between the Subject Property and a contaminated plume is defined by E2600-10 as 30 feet for dissolved petroleum hydrocarbons, and 100 feet for free-product petroleum hydrocarbons and non-petroleum chemicals of concern (“COC”). Contaminated groundwater plumes within these distances may constitute a VEC to the Subject Property.

Summary
No evidence was found for a present or likely to be present Vapor Encroachment Condition on the Subject Property.

9.0 FINDINGS

Site Description and Current Use
The Subject Property is located in the City Limits of Santa Rosa in Sonoma County. It is approximately 0.92 miles west of U. S. Highway 101 and approximately 1.77 miles south-south-west of the City Center of Santa Rosa. The general characteristic of the property’s vicinity is predominately single family residences with a school to the east.

The Subject Property consists of two adjacent parcels that are both rectangular in shape. The two parcels are each approximately 2.50 acres in area for a combined site of 5.0 acres in area. The site is undeveloped land with no structures. The site is
covered by annual grasses, weeds, and several oak trees. Much of this vegetation was dry due to the time of year.

Adjoining Properties Use

- **North:** Single Family Residence
- **East:** Single Family Residence and Public School
- **South:** Single Family Residence
- **West:** Single Family Residence

Land Use Designations
The Subject Property is zoned RR for Rural Residential.

Standard and Additional Environmental Records Search
The Standard and Additional Environmental Records Search did not disclose issues on the Subject Property or any of the properties within the standard ASTM search radius of 1-mile that appeared to be significant for the Subject Property.

Physical Setting
The elevation of the Subject Property is at 125 feet above sea level with the general topographic gradient towards the west-southwest. Soils consist of poorly drained soils with very slow infiltration rates. The property is outside the 500-year and 100-year flood zones.

Historical and Present Use of Subject Property
The Subject Property was planted with an orchard as far back as at least 1942. The orchard was removed some time between 1965 and 1982. Since 1982, the property has been undeveloped and covered by annual grasses, weeds, and several oak trees. Much of this vegetation was dry due to the time of year.

Recognized Environmental Conditions
In the course of performing this All Appropriate Inquiry-Environmental Site Assessment, Phase 1 Investigation evidence of Recognized Environmental Conditions was not identified on the Subject Property.

- **Controlled Recognized Environmental Conditions**
  No Controlled Recognized Environmental Conditions were identified in connection with the Subject Property.

- **Vapor Encroachment Conditions**
  No Vapor Encroachment Conditions were identified in connection with the Subject Property.
Historic Recognized Environmental Conditions
No Historic Recognized Environmental Conditions were identified in connection with the Subject Property.

Activity and Use Limitations
No Activity and Use Limitations were identified in connection with the Subject Property.

De Minimis Conditions
No de minimus conditions were found for the Subject Property.

Data Gaps
No data gaps were encountered during the performance of this investigation.

10.0 CONCLUSIONS
Harris and Lee Environmental Sciences, LLC has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527 of the property designated as Sonoma County Assessor’s Parcel Number 125-421-018 and -019 with the physical address of 1990-2030 Burbank Avenue, Santa Rosa, CA 95407, the property. Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

11.0 OPINION
Harris and Lee Environmental Sciences, LLC reminds the client that it is always prudent to maintain care in handling chemicals and any hazardous materials in any building or any property. It is pertinent to be reminded that the building / property owner is ultimately responsible for the environmental compliance that occurs in any building or on any property. Thus, if a tenant is not in compliance, the owner, who has nothing to do with the tenant’s operations, can be held responsible.

Recommendations
Harris and Lee Environmental Sciences, LLC recommends that no further environmental investigation is warranted on the Subject Property given the findings of this Phase I Environmental Site Assessment.

12.0 ENVIRONMENTAL PROFESSIONAL STATEMENT
We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR §312. We have the specific qualifications based on education, training, and experience to assess
a property of the nature, history, and setting of the Subject Property. We have
developed and performed the all appropriate inquiries in conformance with the
standards and practices set forth in 40 CFR Part 312.

13.0 DEVIATIONS

There are no deviations in the preparation of this Environmental Site Assessment from
the Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site

14.0 ADDITIONAL SERVICES

No additional services beyond the All Appropriate Inquiry, Environmental Site
Assessment Phase 1 Investigation ASTM E-1527-13 Standard Practice for
Environmental Site Assessments: Phase 1 Environmental Site Assessment Process
were added to this report.

15.0 REFERENCES

15.1 Published References

ASTM 2013, Standard Practice for Environmental Site Assessments: Phase 1
Environmental Site Assessment Process, Annual Book of ASTM Standards, Standard
Practice E1527-13

ASTM 2010, Standard Guide for Vapor Encroachment Screening on Property Involved
in Real Estate Transactions, Standard Method E2600-10.

Environmental Protection Agency 2005, Standards and Practices for All Appropriate
Inquiries; Final Rule, Part III Environmental Protection Agency, 40 Code of Federal
Regulations Part 312, Federal Register Vol. 70, No. 210, Rules and Regulations,
November 1, 2005

US Code Title 42, the Public Health and Welfare, Chapter 103--Comprehensive
Environmental Response, Compensation, and Liability, Subchapter I- Hazardous
Substances Releases, Liability, Compensation

15.2 Unpublished References

Environmental Data Resources, Inc., The EDR Radius Map with GeoCheck, Inquiry
Number 4354129.2s for Burbank Housing Development Corp, 1990-2030 Burbank
Avenue, Santa Rosa, CA 95407
Environmental Data Resources, Inc., Certified Sanborn® Map Report, Inquiry Number 4354129.3 for Burbank Housing Development Corp, 1990-2030 Burbank Avenue, Santa Rosa, CA 95407

Environmental Data Resources, Inc., EDR-Historical Topographic Map Report, Inquiry Number 4354129.4 for Burbank Housing Development Corp, 1990-2030 Burbank Avenue, Santa Rosa, CA 95407

Environmental Data Resources, Inc., The EDR Aerial Photo Decade Package, Inquiry Number 4354129.5 for Burbank Housing Development Corp, 1990-2030 Burbank Avenue, Santa Rosa, CA 95407

Environmental Data Resources, Inc., The EDR-City Directory Abstract, Inquiry Number 4354129.6 for Burbank Housing Development Corp, 1990-2030 Burbank Avenue, Santa Rosa, CA 95407

California Department of Toxic Substances, California EPA Website at www.envirostor.dtsc.ca.gov/public/

California Department of Water Resources, Division of Planning and Local Assistance Website at http://well.water.ca.gov/

California State Water Resources Control Board, Water Quality, Geographic Information System (GIS) at http://www.geotacker.swrcb.ca.gov


U. S. Environmental Protection Agency, Brownfields Cleanup and Redevelopment, All Appropriate Inquiries at http://www.epa.gov/
16.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and 12.13.2 We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.
PROFESSIONAL PROFILE

Robert S. Harris

TITLE: Partner/Senior Scientist: Harris and Lee Environmental Sciences LLC

Partner: Lee Seeley & Harris

EXPERTISE: Thirty-six (36) years experience in Environmental Analytical Chemistry and Environmental Toxicology. Efforts involved full research laboratory supervision for the University of California as well as commercial laboratories involved in Environmental Analytical Chemistry. Developed and refined the now standard method for PCB Analysis in various matrices. Mr. Harris has supported Risk Assessments, Site Audits, Health and Safety Management programs, and Hazardous Waste Management Programs. In addition, Mr. Harris has brought electronic data management technology into major petroleum industry members including Exxon, USA, Chevron USA, Texaco, USA, Mobil Oil Corporation, Atlantic Richfield (ARCO), Amarada Hess, Unocal, and Pacific Gas and Electric Company.

EXPERIENCE: Laboratory Director for the University of California for 11 years beginning in 1964; operated laboratories on the Davis Campus and the Hopland Field Station in Mendocino County, California. Published 12 research papers at the University of California

Founded Multi-Tech Laboratories in Ukiah in 1974. Established laboratories in Ukiah and Santa Rosa, CA. Multi-Tech Laboratories was one of the larger laboratories in California. During this time Mr. Harris developed several methodologies for environmental analysis, including the standard method for the analyses of Polychlorinated Biphenyls (PCB’s) in water, soils and oils. When the laboratory became a part of Environmental Testing and Certification Corporation, Mr. Harris was Executive Vice President in charge of western United States operations.

Established American Technologies in 1992 and developed it in the United States and Mexico. Changed name of American Technologies to Harris and Lee Environmental Sciences in 1997. Development and refinement of the concept of environmental management where toxic risk evaluation and regulatory requirements guide the project oversight. Supervised the management and orchestration of source monitoring in Southern
California. In Northern California, developed a waste minimization program that converted waste costing $120K per month for disposal into a usable fuel to operate high pressure steam boilers.

Has carried out property transfer assessments and aided in the control and management of environmental as well as health and safety risk. In this capacity, Mr. Harris has used his knowledge of the sciences of chemistry and toxicology to properly identify risks that are real and to separate these from situations where the risk is suspected but not real. In this capacity, Mr. Harris has assisted lending institutions, insurance companies, real estate professionals and law firms in identifying chemical profiles and characteristics in toxic situations and managing environmental risk. Mr. Harris has extensive experience in litigation support and expert testimony in areas of environmental chemistry and industrial process chemistry.

**ACADEMIC BACKGROUND:**

BS. Zoology, Minor, Chemistry, University of California, Davis, 1964  
MS, Biology, emphasis Biochemistry, California State University, Sonoma, 1972

**PUBLICATIONS:**

Published approximately 12 times in the fields of agricultural chemistry, neurophysiology and animal physiology.

**SPECIALIZED TRAINING:**

Varian Gas Chromatography Course  
Varian Electronic Chromatograph Data Reduction  
Hewlett Packard GC/MS Course I  
Hewlett Packard GC/MS Course II  
Risk Assessment for Hazardous Chemicals  
University of California Hazardous Materials Courses  
University of California Advanced Environmental Auditing  
American Society for Testing and Materials, Risk Based Corrective Action

**PROFESSIONAL AFFILIATIONS:**

American Chemical Society  
American Association for the Advancement of Science  
American Water Works Association  
Rotary International

**CERTIFICATIONS:**

California Registered Environmental Assessor - REA #4966
PROFESSIONAL PROFILE

Walter Beach

TITLE:  Partner: Harris and Lee Environmental Sciences, LLC

EXPERTISE:  Mr. Beach is a Registered Environmental Assessor, certified in the State of California. Mr. Beach has performed or supervised over 2,500 environmental assessments and numerous Phase II, III and IV Environmental Investigations. Mr. Beach leads the Environmental Due Diligence group within Harris and Lee Environmental Sciences, LLC.

Mr. Beach has over 25 years experience in Environmental Sciences and Management and Information Technology for Fortune 500 companies including: Charles Schwab & Co., Price Waterhouse Consulting, Novartis and Wells Fargo Bank. He specializes in Merger and Acquisition Integration, Process Improvement, Offshore Outsourcing, Project Management and Software Development and Maintenance. Mr. Beach has a unique blend of business, technical and organizational acumen to effectively communicate the issues to a range of stakeholders from individual contributors to executive leaders to solve problems always with business needs and goals in mind.

EXPERIENCE:  Mr. Beach’s experience includes building and managing organizations in multiple companies of all sizes. He has worked extensively in management consulting. His background is engineering and computer information technology.

Some of Mr. Beach’s professional experience includes:

Performed or supervised over 2,500 environmental assessments and numerous Phase II, III and IV Environmental Investigations.

Implemented post-acquisition integration including organization restructure, technology (applications and infrastructure), brand and business processes at a Financial Organization. Included multiple geographical locations including off-shore. Successfully met aggressive budget and schedule targets.

Responsible for developing and implementing cohesive application architecture for subsidiary of Global Pharmaceutical Corporation’s world-wide enterprise. Included systems and functional areas of SAP, Siebel CRM, corporate Intranet, DR/CAPA, LIMS, R&D, Finance, Human Resources, Supply Chain Management, Clinical Development, Document Management, Contingent Workforce Outsourcing and
Business Intelligence. Implemented Long Range Planning process across the Corporation. Developed comprehensive Business Intelligence strategy for all reporting and analysis needs at Chiron. Incorporated SAP BW, Cognos and Business Objects suites and numerous, international data sources. Worked on project team that implemented the first PMO for the organization. Worked closely with business and technical areas. Experienced in regulatory and CFR Part 11 requirements.

Head of Information Technology Off-shoring corporate-wide for Financial Company. Created program for utilization of offshore companies for all aspects of system life cycle work within the company. The Offshore Development Office was responsible for vendor selection, negotiating contracts, governance, infrastructure, security, and financial reporting. Demonstrated 40% project savings over traditional approaches with annual savings of $22,000,000.

Director of Technology for Capital Markets and Trading business in Brokerage. Responsible for all technology solutions and infrastructure (desktop, servers, applications, helpdesk, etc.) for business unit with over $1B annual revenue. Multiple geographic locations supported. Partnered with business to decrease unit operating costs by 42% while revenues increased by 300%. Led application development and maintenance organization of 100+. Hired skilled staff, including successor, and developed processes and tools to promote repeatable success and drive down costs. Partnered with business clients and fostered team concept and pride in work. Group achieved the finest track record of any within the company, delivering over 300 projects with 93+% success rate and receiving 15 corporate-wide awards.

ACADEMIC BACKGROUND:  
BS, Computer Engineering, Boston University, 1983  
MS, Computer Science, University of California, Berkeley, 1986  
MBA, Duke University-Fuqua School of Business, 1991

PATENTS:  
Mr. Beach holds three patents in Computer Design

PROFESSIONAL AFFILIATIONS:  
Rotary International; Project Management Institute; ASTM

CERTIFICATIONS:  
Project Management Professional  
Registered Environmental Assessor
Exhibit A – Vicinity Map
Exhibit B – Assessor’s Parcel Map
Exhibit C – U.S.G.S 7.5-Minute Topographic Map
This report includes interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Burbank Housing Development
ADDRESS: 1980-2010 Burbank Avenue
          Santa Rosa CA 95407
LAT/LONG: 38.4184 / 122.7326

CLIENT: Harris & Lee Env. Sciences
CONTACT: Cathy Neumann
INQUIRY #: 4354128.2s
DATE: July 14, 2016 5:01 pm
Exhibit D – Site Photographs
Exhibit E – Historic Topographic and Aerial Photographs
EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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Burbank Housing Development
1990-2030 Burbank Avenue
Santa Rosa, CA 95407

Inquiry Number: 4354129.9
July 20, 2015

The EDR Aerial Photo Decade Package
EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR’s professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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Please contact EDR at 1-800-352-0050 with any questions or comments.

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Aerial Photography July 20, 2015

### Target Property:
1990-2030 Burbank Avenue  
Santa Rosa, CA 95407

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| 2006 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2006 | USDA/NAIP       |
| 2009 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2009 | USDA/NAIP       |
| 2010 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2010 | USDA/NAIP       |
| 2012 | Aerial Photograph. Scale: 1"=500' | Flight Year: 2012 | USDA/NAIP       |
Exhibit F – Environmental Data Resources Reports
A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA’s Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

**TARGET PROPERTY INFORMATION**

**ADDRESS**

1990-2030 BURBANK AVENUE  
SANTA ROSA, CA 95407

**COORDINATES**

Latitude (North): 38.4184000 - 38° 25’ 6.24”
Longitude (West): 122.7326000 - 122° 43’ 57.36”
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 523343.6
UTM Y (Meters): 4252066.0
Elevation: 125 ft. above sea level

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

- Target Property Map: 38122-D6 SANTA ROSA, CA
- Version Date: 1999
- West Map: 38122-D7 SEBASTOPOL, CA
- Version Date: 1980

**AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 20120523
Source: USDA
### MAPPED SITES SUMMARY

**Target Property Address:**
1980-2010 BURBANK AVENUE  
SANTA ROSA, CA  95407

Click on Map ID to see full detail.

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>SITE NAME</th>
<th>ADDRESS</th>
<th>DATABASE ACRONYMS</th>
<th>RELATIVE ELEVATION</th>
<th>DIST (ft. &amp; mi.)</th>
<th>DIRECTION</th>
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<tbody>
<tr>
<td>A1</td>
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<td>1850 BURBANK AVENUE</td>
<td>SLIC</td>
<td>Lower</td>
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<td>B1</td>
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<td>13</td>
<td>MCMINN AVENUE</td>
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<td>17</td>
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<td>GREG'S AUTOMOTIVE</td>
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<tr>
<td>21</td>
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<td>ENVIROSTOR</td>
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<td>440 HEARN AVENUE</td>
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<td>Higher</td>
<td>5003, 0.948, ENE</td>
<td></td>
</tr>
</tbody>
</table>
TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR’s search of available (“reasonably ascertainable”) government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

**Federal NPL site list**
- NPL.................. National Priority List
- Proposed NPL........... Proposed National Priority List Sites
- NPL LIENS............ Federal Superfund Liens

**Federal Delisted NPL site list**
- Delisted NPL.............. National Priority List Deletions

**Federal CERCLIS list**
- FEDERAL FACILITY........ Federal Facility Site Information listing

**Federal CERCLIS NFRAP site List**
- CERC-NFRAP............. CERCLIS No Further Remedial Action Planned

**Federal RCRA CORRACTS facilities list**
- CORRACTS............... Corrective Action Report

**Federal RCRA non-CORRACTS TSD facilities list**
- RCRA-TSDF.............. RCRA - Treatment, Storage and Disposal

**Federal RCRA generators list**
- RCRA-LQG................. RCRA - Large Quantity Generators
- RCRA-SQG............... RCRA - Small Quantity Generators
- RCRA-CESQG............. RCRA - Conditionally Exempt Small Quantity Generator

**Federal institutional controls / engineering controls registries**
- US ENG CONTROLS......... Engineering Controls Sites List
- US INST CONTROL......... Sites with Institutional Controls
- LUCIS.................... Land Use Control Information System
EXECUTIVE SUMMARY

**Federal ERNS list**
ERNS. Emergency Response Notification System

**State- and tribal - equivalent NPL**
RESPONSE. State Response Sites

**State and tribal landfill and/or solid waste disposal site lists**
SWF/LF. Solid Waste Information System

**State and tribal leaking storage tank lists**
LUST. Geotracker’s Leaking Underground Fuel Tank Report
INDIAN LUST. Leaking Underground Storage Tanks on Indian Land

**State and tribal registered storage tank lists**
UST. Active UST Facilities
AST. Aboveground Petroleum Storage Tank Facilities
INDIAN UST. Underground Storage Tanks on Indian Land
FEMA UST. Underground Storage Tank Listing

**State and tribal voluntary cleanup sites**
INDIAN VCP. Voluntary Cleanup Priority Listing
VCP. Voluntary Cleanup Program Properties

**ADDITIONAL ENVIRONMENTAL RECORDS**

**Local Brownfield lists**
US BROWNFIELDS. A Listing of Brownfields Sites

**Local Lists of Landfill / Solid Waste Disposal Sites**
DEBRIS REGION 9. Torres Martinez Reservation Illegal Dump Site Locations
ODI. Open Dump Inventory
SWRCY. Recycler Database
HAULERS. Registered Waste Tire Haulers Listing
INDIAN ODI. Report on the Status of Open Dumps on Indian Lands
WMUDS/SWAT. Waste Management Unit Database

**Local Lists of Hazardous waste / Contaminated Sites**
US CDL. Clandestine Drug Labs
HIST Cal-Sites. Historical CalSites Database
Toxic Pits. Toxic Pits Cleanup Act Sites
CDL. Clandestine Drug Labs
US HIST CDL. National Clandestine Laboratory Register

**Local Lists of Registered Storage Tanks**
CA FID UST. Facility Inventory Database
HIST UST, Hazardous Substance Storage Container Database
SWEEPS UST, SWEEPS UST Listing

Local Land Records
LIENS 2, CERCLA Lien Information
LIENS, Environmental Liens Listing
DEED, Deed Restriction Listing

Records of Emergency Release Reports
HMIRS, Hazardous Materials Information Reporting System
CHMIRS, California Hazardous Material Incident Report System
LDS, Land Disposal Sites Listing
MCS, Military Cleanup Sites Listing
SPILLS 90, SPILLS 90 data from FirstSearch

Other Ascertainable Records
RCRA NonGen / NLR, RCRA - Non Generators / No Longer Regulated
DOT OPS, Incident and Accident Data
DOD, Department of Defense Sites
FUDS, Formerly Used Defense Sites
CONSENT, Superfund (CERCLA) Consent Decrees
ROD, Records Of Decision
UMTRA, Uranium Mill Tailings Sites
US MINES, Mines Master Index File
TRIS, Toxic Chemical Release Inventory System
TSCA, Toxic Substances Control Act
FTTS, FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS, FIFRA/TSCA Tracking System Administrative Case Listing
SSTS, Section 7 Tracking Systems
ICIS, Integrated Compliance Information System
PADS, PCB Activity Database System
MLTS, Material Licensing Tracking System
RADINFO, Radiation Information Database
FINDS, Facility Index System/Facility Registry System
RAATS, RCRA Administrative Action Tracking System
RMP, Risk Management Plans
NPDES, NPDES Permits Listing
UIC, UIC Listing
Cortese, “Cortese” Hazardous Waste & Substances Sites List
HIST CORTES, Hazardous Waste & Substance Site List
CUPA Listings, CUPA Resources List
DRYCLEANERS, Cleaner Facilities
WIP, Well Investigation Program Case List
ENF, Enforcement Action Listing
HAZNET, Facility and Manifest Data
EMI, Emissions Inventory Data
INDIAN RESERV, Indian Reservations
SCRD DRYCLEANERS, State Coalition for Remediation of Drycleaners Listing
WDS, Waste Discharge System
Financial Assurance, Financial Assurance Information Listing
PROC, Certified Processors Database
HWT, HWP, MWWP, LEAD SMELTERS, US AIRS, EPA WATCH LIST, US FIN ASSUR, COAL ASH EPA, PCB TRANSFORMER, COAL ASH DOE, 2020 COR ACTION, PRP

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records
EDR MGP, EDR US Hist Auto Stat, EDR US Hist Cleaners, EDR Exclusive Manufactured Gas Plants, EDR Exclusive Historic Gas Stations, EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives
RGA LUST, RGA LF, Recovered Government Archive Leaking Underground Storage Tank, Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1
CERCLIS site within approximately 0.5 miles of the target property.

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<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
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<tbody>
<tr>
<td>WEST AVENUE MERCURY</td>
<td>1363 WEST AVENUE</td>
<td>NE 1/4 - 1/2 (0.420 mi.)</td>
<td>7</td>
<td>27</td>
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</table>

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 05/04/2015 has revealed that there are 14 ENVIROSTOR sites within approximately 1 mile of the target property.

<table>
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<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
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<th>Page</th>
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</thead>
<tbody>
<tr>
<td>ROSELAND UNIVERSITY</td>
<td>1777 WEST AVENUE</td>
<td>ENE 1/8 - 1/4 (0.237 mi.)</td>
<td>4</td>
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<tr>
<td>FOUCHÉ AUTO WRECKERS</td>
<td>2290 DUTTON AVENUE</td>
<td>ESE 1/2 - 1 (0.506 mi.)</td>
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<tr>
<td>MCMINN AVENUE</td>
<td>841 MCMINN AVENUE</td>
<td>N 1/2 - 1 (0.667 mi.)</td>
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</tr>
<tr>
<td>WESCOTTS AUTO &amp; TRUC</td>
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<td>NNW 1/2 - 1 (0.694 mi.)</td>
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<tr>
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<td>S.W. BROWN</td>
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<td>SANTA ROSA CIRCUITS</td>
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<td>NE 1/2 - 1 (0.887 mi.)</td>
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EXECUTIVE SUMMARY

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<td>BURBANK AVENUE ELEME</td>
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<td></td>
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<td>Status: Inactive - Needs Evaluation</td>
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</table>

State and tribal leaking storage tank lists

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 03/13/2015 has revealed that there are 3 SLIC sites within approximately 0.5 miles of the target property.

<table>
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<td>WNW 0 - 1/8 (0.097 mi.)</td>
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<td>ROSELAND CREEK @ BUR</td>
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<td>Global Id: SL0609756518</td>
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ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category, depending on the level of threat to public health and safety or the environment they pose.

A review of the SCH list, as provided by EDR, and dated 05/04/2015 has revealed that there are 2 SCH
sites within approximately 0.25 miles of the target property.

<table>
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<tr>
<td>ROSELAND UNIVERSITY</td>
<td>1777 WEST AVENUE</td>
<td>ENE 1/8 - 1/4 (0.237 mi.)</td>
<td>4</td>
<td>17</td>
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<tr>
<td>BURBANK AVENUE ELEME</td>
<td>1683 BURBANK AVENUE</td>
<td>NNW 1/8 - 1/4 (0.187 mi.)</td>
<td>3</td>
<td>9</td>
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<tr>
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<td>Facility Id: 70000113</td>
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</table>

Other Ascertifiable Records

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

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<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
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<td>MCMINN AVENUE</td>
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Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 13 Notify 65 sites within approximately 1 mile of the target property.

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<tr>
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<td>1834 ROSE AVENUE</td>
<td>NW 1/2 - 1 (0.607 mi.)</td>
<td>B11</td>
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Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

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<td>AHL PROPERTY</td>
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<td>SOUTHERN PACIFIC TRANS CO.</td>
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<td>SANTA ROSA CITY / HIGHWAY 12 INTER</td>
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<td>WEST COLLEGE AVENUE / CLOVER DRIVE</td>
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<tr>
<td>MEADOW VIEW EXPANSION, HEARN AVE.</td>
<td>SCH, ENVIROSTOR</td>
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This report includes interactive map layers to display and/or hide map information. The legend includes only those icons for the default map view.
## MAP FINDINGS SUMMARY

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# MAP FINDINGS SUMMARY

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**State and tribal registered storage tank lists**

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**State and tribal voluntary cleanup sites**

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**ADDITIONAL ENVIRONMENTAL RECORDS**

**Local Brownfield lists**

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**Local Lists of Landfill / Solid Waste Disposal Sites**

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**Local Lists of Hazardous waste / Contaminated Sites**

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**Local Lists of Registered Storage Tanks**

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## EDR HIGH RISK HISTORICAL RECORDS

### EDR Exclusive Records

| EDR MGP                | 1.000                   | 0               | 0     | 0         | 0         | NR      | NR  | 0             |
| EDR US Hist Auto Stat  | 0.250                   | 0               | 0     | NR        | NR        | NR      | NR  | 0             |
| EDR US Hist Cleaners   | 0.250                   | 0               | 0     | NR        | NR        | NR      | NR  | 0             |

## EDR RECOVERED GOVERNMENT ARCHIVES

### Exclusive Recovered Govt. Archives

| RGA LUST               | TP                      | NR              | NR    | NR        | NR        | NR      | NR  | 0             |
| RGA LF                 | TP                      | NR              | NR    | NR        | NR        | NR      | NR  | 0             |

**- Totals --**

|               | 0 | 2  | 4  | 3  | 25 | 0   | 34 |

### NOTES:

- **TP** = Target Property
- **NR** = Not Requested at this Search Distance
- Sites may be listed in more than one database
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<th>1NSR232</th>
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<td>Actual: 123 ft.</td>
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<td>&lt; 1/8 0.087 mi. 0.097 mi. Relative: Lower</td>
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Click here to access the California GeoTracker records for this facility:

SLIC REG 1:
- Region: 1
- Facility ID: 1NSR232
- Staff Initials: Facility Closed

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<td>586 ft. Site 2 of 2 in cluster A Actual: 123 ft.</td>
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<td>Latitude: 38.41931 Longitude: -122.732892</td>
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<td>Case Type: Cleanup Program Site</td>
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<td>RB Case Number: 1NSR233</td>
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<td>File Location: Regional Board</td>
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<td>Potential Contaminants of Concern: Diesel</td>
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Click here to access the California GeoTracker records for this facility:

SLIC REG 1:
- Region: 1
DUTTON & ASSOCIATES (Continued)

Facility ID: 1NSR233
Staff Initials: Facility Closed

---

3  BURBANK AVENUE ELEMENTARY SCHOOL
NNW  1683 BURBANK AVENUE
      SANTA ROSA, CA 95407
    1/8-1/4
    0.187 mi.
    987 ft.
    Relative: SCH:
    Actual: 124 ft.

Facility ID: 70000113
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 11.4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Jose Salcedo
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Site Code: 204162
Assembly: 10
Senate: 02
Special Program Status: Not reported
Status: Active
Status Date: 08/03/2012
Restricted Use: YES
Funding: School District
Latitude: 38.42215
Longitude: -122.7354
APN: 125-321-001
Past Use: AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: Under Investigation, Arsenic, DDD, DDE, DDT, Lead, Polynuclear aromatic hydrocarbons (PAHs, Tetrachloroethylene (PCE, Trichloroethylene (TCE
Confirmed COC: Polynuclear aromatic hydrocarbons (PAHs, 30022-NO, Under Investigation, 30027-NO, 30001-NO, 30006-NO, 30007-NO, 30008-NO, Lead
Potential Description: SED, SOIL, SV, SURFW
Alias Name: New Burbank Elementary School
Alias Type: Alternate Name
Alias Name: Roseland Elementary School
Alias Type: Alternate Name
Alias Name: 125-321-001
Alias Type: APN
Alias Name: New Burbank Elementary School
Alias Type: Former Project ID
Alias Name: 110033611731
Alias Type: EPA (FRS #)
Alias Name: 204162
Alias Type: Project Code (Site Code)
Alias Name: 70000113
Alias Type: Envirostor ID Number

Completed Info:
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<td>School Cleanup Agreement</td>
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<td>DTSC reviewed the removal action documentation sent by Roseland School District and conducted a site visit on 8/21/2012 to confirm current site conditions. DTSC approved the school for occupancy pending completion of RAW activities and submittal and approval of a RACR.</td>
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<td>Completed Area Name</td>
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<tr>
<td>Completed Document Type</td>
<td>Preliminary Endangerment Assessment Workplan</td>
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<tr>
<td>Completed Date</td>
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<tr>
<td>Comments</td>
<td>Approved the Workplan conditional on submittal of a work notice.</td>
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<td>Completed Area Name</td>
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<td>Completed Document Type</td>
<td>Supplemental Site Investigation Workplan</td>
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<td>Completed Date</td>
<td>06/29/2007</td>
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<td>Comments</td>
<td>DTSC approved the SSI Workplan. Project manager gave verbal permission to District to implement SSI Workplan on 6/21/07.</td>
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<td>Comments</td>
<td>DTSC approved the SSI report with a further action determination for</td>
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BURBANK AVENUE ELEMENTARY SCHOOL (Continued)

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- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Environmental Oversight Agreement
- **Completed Date:** 09/21/2007
- **Comments:** The DTSC public participation specialist sent the project manager a copy of the formatted Fact Sheet (minus the dates) for the Removal Action Workplan.

- **Future Area Name:** Not reported
- **Future Sub Area Name:** Not reported
- **Future Document Type:** Not reported
- **Future Due Date:** Not reported
- **Schedule Area Name:** PROJECT WIDE
- **Schedule Sub Area Name:** Not reported
- **Schedule Document Type:** Partial Site Approval
- **Schedule Due Date:** 09/21/2007
- **Schedule Revised Date:** Not reported

- **Future Area Name:** Not reported
- **Future Sub Area Name:** Not reported
- **Future Document Type:** Not reported
- **Future Due Date:** Not reported
- **Schedule Area Name:** Not reported
- **Schedule Sub Area Name:** Not reported
- **Schedule Document Type:** Removal Action Completion Report
- **Schedule Due Date:** 10/30/2014
- **Schedule Revised Date:** Not reported

- **Completed Date:** 10/31/2008
- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Fact Sheets
- **Completed Date:** 10/31/2008
- **Comments:** PPS sent a PDF of the Final Community Profile.

- **Completed Date:** 10/27/2008
- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Public Notice
- **Completed Date:** 10/27/2008
- **Comments:** Final Public Notice completed and uploaded.

- **Completed Date:** 10/27/2008
- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Environmental Oversight Agreement
- **Completed Date:** 09/12/2005
- **Comments:** Not reported

- **Completed Date:** 09/12/2005
- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Partial Site Approval
- **Completed Date:** 09/12/2005
- **Comments:** DTSC issued a partial site approval and approved CDE Form SFPD 4.15.
BURBANK AVENUE ELEMENTARY SCHOOL (Continued)

NPDES:
- NPDES Number: CAS000002
- Facility Status: Terminated
- Agency Id: 0
- Region: 1
- Regulatory Measure Id: 417267
- Order No: 2009-0009-DWQ
- Regulatory Measure Type: Enrollee
- Place Id: Not reported
- WDID: 1 49C361523
- Program Type: Construction
- Adoption Date Of Regulatory Measure: Not reported
- Effective Date Of Regulatory Measure: 07/26/2011
- Expiration Date Of Regulatory Measure: Not reported
- Termination Date Of Regulatory Measure: 08/30/2012

Discharge Name: Roseland School District
Discharge Address: 1934 Biwana Drive
Discharge City: Santa Rosa
Discharge State: California
Discharge Zip: 95407

RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported
OPERATOR ADDRESS: Not reported
OPERATOR CITY: Not reported
OPERATOR STATE: Not reported
OPERATOR ZIP: Not reported
OPERATOR CONTACT NAME: Not reported
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: Not reported
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: Not reported
OPERATOR TYPE: Not reported
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: Not reported
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERTIAL IND: Not reported

NPDES Number: NPDES:
BURBANK AVENUE ELEMENTARY SCHOOL  (Continued)  S107736874
BURBANK AVENUE ELEMENTARY SCHOOL  (Continued)  S107736874

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<tr>
<td>Superintendent OPERATOR CONTACT TITLE:</td>
<td>Gail Ahlas</td>
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<tr>
<td>OPERATOR CONTACT NAME:</td>
<td>95407</td>
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<tr>
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<td>Santa Rosa</td>
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<td>Roseland School District</td>
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<tr>
<td>OPERATOR ADDRESS:</td>
<td>1934 Biwana Drive</td>
</tr>
<tr>
<td>OPERATOR NAME:</td>
<td><a href="mailto:anthony.reed@lathropconstruction.com">anthony.reed@lathropconstruction.com</a></td>
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<tr>
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<td>Gail Ahlas</td>
</tr>
<tr>
<td>OPERATOR CONTACT TITLE:</td>
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<tr>
<td>OPERATOR CONTACT EMAIL:</td>
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<td>FACILITY CONTACT PHONE:</td>
<td>707-746-8000</td>
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<td>OPERATOR ADDRESS:</td>
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<td>OPERATOR CITY:</td>
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<td>Gail Ahlas</td>
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<tr>
<td>OPERATOR CONTACT TITLE:</td>
<td>Superintendent</td>
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BURBANK AVENUE ELEMENTARY SCHOOL  (Continued)  S107736874

OPERATOR CONTACT PHONE: 707-545-0102
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: gahlas@roselandsd.org
OPERATOR TYPE: State Agency
DEVELOPER NAME: Lathrop Construction Associates
DEVELOPER ADDRESS: 4001 Park Road
DEVELOPER CITY: Benicia
DEVELOPER STATE: California
DEVELOPER ZIP: 95410
DEVELOPER CONTACT NAME: Anthony Reed
DEVELOPER CONTACT TITLE: Project Manager
CONSTYPE LINEAR UTILITY IND: N
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERTIAL IND: Not reported
CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
CONSTYPE INDUSTRIAL IND: Not reported
CONSTYPE OTHER DESCRIPTION: Educational
CONSTYPE OTHER IND: Y
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: N
RECEIVING WATER NAME: Roseland Creek
CERTIFIER NAME: Gail Ahlas
CERTIFIER TITLE: Superintendent
CERTIFICATION DATE: 18-JUL-11
PRIMARY SIC: Not reported
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

ENVIROSTOR:
Facility ID: 70000113
Status: Active
Status Date: 08/03/2012
Site Code: 204162
Site Type: School Cleanup
Site Type Detailed: School
Acres: 11.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Jose Salcedo
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Assembly: 10
Senate: 02
Special Program: Not reported
Restricted Use: YES
Burbank Avenue Elementary School (Continued)  S107736874

Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 38.42215
Longitude: -122.7354
APN: 125-321-001
Past Use: AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: Under Investigation Arsenic DDD DDE DDT Lead Polynuclear aromatic hydrocarbons (PAHs) Tetrachloroethylene (PCE) Trichloroethylene (TCE)
Confirmed COC: Polynuclear aromatic hydrocarbons (PAHs) 30022-NO Under Investigation 30027-NO 30001-NO 30006-NO 30007-NO 30008-NO Lead

Potential Description: SED, SOIL, SV, SURFW
Alias Name: New Burbank Elementary School
Alias Type: Alternate Name
Alias Name: Roseland Elementary School
Alias Type: Alternate Name
Alias Name: 125-321-001
Alias Type: APN
Alias Name: New Burbank Elementary School
Alias Type: Former Project ID
Alias Name: 110033611731
Alias Type: EPA (FRS #)
Alias Name: 204162
Alias Type: Project Code (Site Code)
Alias Name: 70000113
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 09/05/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/09/2009
Comments: NOE for RAW approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/07/2013
Comments: Signatory change on SCA.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 02/06/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/22/2012
Comments: DTSC reviewed the removal action documentation sent by Roseland School District and conducted a site visit on 8/21/2012 to confirm current site conditions. DTSC approved the school for occupancy.
BURBANK AVENUE ELEMENTARY SCHOOL (Continued)

<table>
<thead>
<tr>
<th>Completed Area Name</th>
<th>PROJECT WIDE</th>
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<tbody>
<tr>
<td>Completed Sub Area Name</td>
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<td>Completed Document Type</td>
<td>Preliminary Endangerment Assessment Workplan</td>
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<td>Comments</td>
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- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Preliminary Endangerment Assessment Report
- **Completed Date:** 07/17/2007
- **Comments:** Not reported

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Supplemental Site Investigation Workplan
- **Completed Date:** 06/29/2007
- **Comments:** DTSC approved the SSI Workplan. Project manager gave verbal permission to District to implement SSI Workplan on 6/21/07.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Supplemental Site Investigation Report
- **Completed Date:** 04/07/2008
- **Comments:** DTSC approved the SSI report with a further action determination for lead around the perimeters of two buildings and PAHs in sediments in Roseland Creek, next to Burbank Avenue.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Removal Action Workplan
- **Completed Date:** 03/09/2009
- **Comments:** RAW approved for implementation.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** 4.15 Request
- **Completed Date:** 09/21/2007
- **Comments:** 4.15 Form and Partial Site Approval are uploaded under the "Partial Site Approval" activity.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Fact Sheets
- **Completed Date:** 10/31/2008
- **Comments:** The DTSC public participation specialist sent the project manager a copy of the formatted Fact Sheet (minus the dates) for the Removal Action Workplan.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Community Profile
- **Completed Date:** 08/29/2008
- **Comments:** PPS sent a PDF of the Final Community Profile.
BURBANK AVENUE ELEMENTARY SCHOOL  (Continued)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 09/12/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Completion Report
Schedule Due Date: 10/30/2014
Schedule Revised Date: Not reported

DTSC issued a partial site approval and approved CDE Form SFPD 4.15.

SCH:

Relative: Higher
Actual: 133 ft.

Facility ID: 60001798
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.8
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Melan Songco
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Site Code: 204253
Assembly: 07
Senate: 02
Special Program Status: Not reported
Status: No Further Action
Status Date: 12/24/2013
Restricted Use: NO
Funding: School District
Latitude: 38.41926
Longitude: -122.7309
ROSELAND UNIVERSITY PREP CHARTER SCHOOL  (Continued)  

| Potential Description: NMA, SOIL | Alias Name: 125-431-023 | Alias Type: APN |
| Alias Name: 204253 | Alias Type: Project Code (Site Code) | Alias Name: 60001798 |

**Completed Info:**
- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Phase 1
- **Completed Date:** 10/19/2012
- **Comments:** On October 16, 2012, DTSC issued a Phase I disapproval letter with a PEA required determination. The PEA will investigate the site for former agriculture activities (OCPs & arsenic), current structures (lead and OCPs), and pole-mounted transformers (PCBs).

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Preliminary Endangerment Assessment Workplan
- **Completed Date:** 05/20/2013
- **Comments:** On May 20, 2013, DTSC approved the PEA workplan for implementation.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Preliminary Endangerment Assessment Report
- **Completed Date:** 11/13/2013
- **Comments:** On November 13, 2013, DTSC approved the PEA Report with a no further action determination.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Environmental Oversight Agreement
- **Completed Date:** 12/24/2012
- **Comments:** Fully executed EOA sent to the District on Dec 24, 2012.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Site Inspections/Visit (Non LUR)
- **Completed Date:** 07/02/2013
- **Comments:** Not reported

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Site Inspections/Visit (Non LUR)
- **Completed Date:** 10/11/2012
- **Comments:** On October 11, 2012, DTSC conducted a site visit.

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Correspondence
- **Completed Document Type:** Not reported
- **Completed Date:** 08/22/2013

---
ROSELAND UNIVERSITY PREP CHARTER SCHOOL (Continued)  S105086096

Comments: On August 22, 2013, DTSC issued an Agreement Manager Change letter to the District.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 12/20/2013
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 60001798
Status: No Further Action
Status Date: 12/24/2013
Site Code: 204253
Site Type: School Investigation
Site Type Detailed: School
Acres: 1.8
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Melan Songco
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Assembly: 07
Senate: 02
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 38.41926
Longitude: -122.7309
APN: 125-431-023
Past Use: AGRICULTURAL - ORCHARD, DAY CARE FACILITY
Potential COC: Arsenic Chlordane DDD DDE DDT Lead Toxaphene
Confirmed COC: 30001-NO 30004-NO 30006-NO 30007-NO 30008-NO 30013-NO No Contaminants found 30023-NO
Potential Description: NMA, SOIL
Alias Name: 125-431-023
Alias Type: APN
Alias Name: 204253
Alias Type: Project Code (Site Code)
Alias Name: 60001798
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
### MAP FINDINGS

**ROSELAND UNIVERSITY PREP CHARTER SCHOOL** (Continued)

<table>
<thead>
<tr>
<th>Completed Document Type</th>
<th>Completed Date:</th>
<th>Comments:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase 1</td>
<td>10/19/2012</td>
<td>On October 16, 2012, DTSC issued a Phase I disapproval letter with a PEA required determination. The PEA will investigate the site for former agriculture activities (OCPs &amp; arsenic), current structures (lead and OCPs), and pole-mounted transformers (PCBs).</td>
</tr>
<tr>
<td>Preliminary Endangerment Assessment Workplan</td>
<td>05/20/2013</td>
<td>On May 20, 2013, DTSC approved the PEA workplan for implementation.</td>
</tr>
<tr>
<td>Environmental Oversight Agreement</td>
<td>12/24/2012</td>
<td>Fully executed EOA sent to the District on Dec 24, 2012.</td>
</tr>
<tr>
<td>Site Inspections/Visit (Non LUR)</td>
<td>07/02/2013</td>
<td>Not reported</td>
</tr>
<tr>
<td>Site Inspections/Visit (Non LUR)</td>
<td>10/11/2012</td>
<td>On October 11, 2012, DTSC conducted a site visit.</td>
</tr>
<tr>
<td>Correspondence</td>
<td>08/22/2013</td>
<td>On August 22, 2013, DTSC issued an Agreement Manager Change letter to the District.</td>
</tr>
<tr>
<td>Cost Recovery Closeout Memo</td>
<td>12/20/2013</td>
<td>Not reported</td>
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**Completed Area Name:** PROJECT WIDE

**Completed Sub Area Name:** Not reported

**Comments:** Not reported
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<tr>
<td><strong>Schedule Document Type:</strong> Not reported</td>
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<td><strong>Schedule Revised Date:</strong> Not reported</td>
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<th>ROSELAND CREEK @ BURBANK AVENUE</th>
<th>SLIC</th>
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<td><strong>Actual:</strong> 124 ft.</td>
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<tr>
<td><strong>Facility Status:</strong> Completed - Case Closed</td>
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<td><strong>Status Date:</strong> 12/03/2010</td>
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<td><strong>Global Id:</strong> SL0609756518</td>
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<tr>
<td><strong>Longitude:</strong> -122.734837532043</td>
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<tr>
<td><strong>Case Type:</strong> Cleanup Program Site</td>
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<td><strong>Case Worker:</strong> ZZZ</td>
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<td><strong>R:::\grave:Case Number:</strong> 1NSO904</td>
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<tr>
<td><strong>File Location:</strong> Regional Board</td>
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<tr>
<td><strong>Potential Media Affected:</strong> Sediments, Surface water, Under Investigation</td>
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<tr>
<td><strong>Potential Contaminants of Concern:</strong> * Metals/Heavy Metals, * Polynuclear Aromatic Hydrocarbons</td>
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<tr>
<td><strong>Site History:</strong> Sediment contamination identified in Roseland Creek during a Phase II investigation by DTSC related to the intent to develop a neighboring property as a school. Source of contamination suspected to be related to impacted storm water run-off. Remedial efforts will be addressed during future development, as required by a 401 certification.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Click here to access the California GeoTracker records for this facility:</td>
<td></td>
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<table>
<thead>
<tr>
<th>MEADOWVIEW ELEMENTARY SCHOOL EXPANSION</th>
<th>SCH</th>
<th>S109548372</th>
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<td><strong>Site Type:</strong> School Cleanup</td>
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<td></td>
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<tr>
<td><strong>Site Type Detail:</strong> School</td>
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<tr>
<td><strong>Site Mgmt. Req.:</strong> NONE SPECIFIED</td>
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<td><strong>Acres:</strong> 1</td>
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<tr>
<td><strong>National Priorities List:</strong> NO</td>
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<tr>
<td><strong>Cleanup Oversight Agencies:</strong> SMBRP</td>
<td></td>
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</tr>
<tr>
<td><strong>Lead Agency:</strong> SMBRP</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lead Agency Description:</strong> DTSC - Site Cleanup Program</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Project Manager:</strong> Craig Sanchez</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supervisor:</strong> Jose Salcedo</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Division Branch:</strong> Northern California Schools &amp; Santa Susana</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Site Code:</strong> 204232</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Assembly:</strong> 10</td>
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<td></td>
</tr>
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</table>
MEADOWVIEW ELEMENTARY SCHOOL EXPANSION  (Continued)  S109548372

Senate: 02
Special Program Status: Not reported
Status: Active
Status Date: 01/28/2015
Restricted Use: NO
Funding: School District
Latitude: 38.41300
Longitude: -122.7300
APN: 043072007
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: Under Investigation, Arsenic, Benzene, Chlordane, DDD, DDE, DDT, Endrin, Lead, Toxaphene, TPH-diesel, TPH-gas
Confirmed COC: 30001-NO, 30003-NO, 30004-NO, 30024-NO, 30025-NO, Under Investigation, 30023-NO, 30013-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO
Potential Description: SOIL
Alias Name: Meadow View Elementary School Expansion
Alias Type: Alternate Name
Alias Name: Meadow View Elementary School Extension
Alias Type: Alternate Name
Alias Name: 043072007
Alias Type: APN
Alias Name: 204232
Alias Type: Project Code (Site Code)
Alias Name: 60001076
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/08/2009
Comments: Signed by Perf Mnger 05/8/09

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 04/09/2009
Comments: Received EOA Application and prepared agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/15/2009
Comments: PM requested a PEA-SSI workplan to complete delineation of the contamination identified in the Phase II report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 10/08/2009
Comments: DTSC approved the PEA workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/13/2010
Comments: PM approved the PEA report with a further action determination. See
MEADOWVIEW ELEMENTARY SCHOOL EXPANSION  (Continued)  

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<td>Completed Date:</td>
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<td>Comments:</td>
<td>PM received e-mails from PPS, District, and District’s consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.</td>
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</tbody>
</table>

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<td>Completed Document Type:</td>
<td>Removal Action Workplan</td>
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<td>Completed Date:</td>
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<td>PM received e-mails from PPS, District, and District’s consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.</td>
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<td>PM received e-mails from PPS, District, and District’s consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.</td>
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<td>Completed Document Type:</td>
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<td>Comments:</td>
<td>PM received finalized Public Notice (English and Spanish) on 2/23/2011.</td>
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<td>Inactive Status Letter</td>
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<td>Comments:</td>
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<tr>
<td>Completed Document Type:</td>
<td>School Cleanup Agreement</td>
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<td>Comments:</td>
<td>mailed fully executed SCA to District</td>
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<tr>
<td>Completed Document Type:</td>
<td>CEQA - Notice of Exemption</td>
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<td>Completed Date:</td>
<td>04/14/2011</td>
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<td>PM received e-mails from PPS, District, and District’s consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.</td>
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<tr>
<td>Completed Document Type:</td>
<td>Cost Recovery Closeout Memo</td>
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<td>Completed Date:</td>
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MEADOWVIEW ELEMENTARY SCHOOL EXPANSION (Continued)

Comments: CRU to close billing for dormant site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 03/26/2015
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 60001076
Status: Active
Status Date: 01/28/2015
Site Code: 204232
Site Type: School Cleanup
Site Type Detailed: School
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Craig Sanchez
Supervisor: Jose Salcedo
Division Branch: Northern California Schools & Santa Susana
Assembly: 10
Senate: 02
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 38.41300
Longitude: -122.7300
APN: 043072007
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: Under Investigation Arsenic Benzene Chlordane DDD DDE DDT Endrin
Lead Toxaphene TPH-diesel TPH-gas
Confirmed COC: 30001-NO 30003-NO 30004-NO 30024-NO 30025-NO Under Investigation
30023-NO 30013-NO 30006-NO 30007-NO 30008-NO 30010-NO
Potential Description: SOIL
Alias Name: Meadow View Elementary School Expansion
Alias Type: Alternate Name
Alias Name: Meadow View Elementary School Extension
Alias Type: Alternate Name
Alias Name: 043072007
Alias Type: APN
Alias Name: 204232
Alias Type: Project Code (Site Code)
Alias Name: 60001076
Alias Type: Envirostor ID Number
MEADOWVIEW ELEMENTARY SCHOOL EXPANSION (Continued)

Completed Info:

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<td>Comments:</td>
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<td>Completed Document Type:</td>
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<td>Comments:</td>
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<td>Comments:</td>
<td>PM approved the PEA report with a further action determination. See uploaded approval letter.</td>
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MEADOWVIEW ELEMENTARY SCHOOL EXPANSION (Continued)

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**CERCLIS Site Contact Name(s):**

- **Contact ID:** 9270486.00000
  - **Contact Name:** Steven Calanog
  - **Contact Tel:** (415) 972-3075
  - **Contact Title:** On-Scene Coordinator (OSC)
  - **Contact Email:** Not reported

- **Contact ID:** 13003854.00000
  - **Contact Name:** Leslie Ramirez
  - **Contact Tel:** (415) 972-3978
  - **Contact Title:** Site Assessment Manager (SAM)
  - **Contact Email:** Not reported

- **Contact ID:** 13003858.00000
  - **Contact Name:** Sharon Murray
  - **Contact Tel:** (415) 972-4250
  - **Contact Title:** Site Assessment Manager (SAM)
  - **Contact Email:** Not reported

- **Contact ID:** 13004003.00000
### WEST AVENUE MERCURY (Continued)

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<tr>
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| Alias Comments: | Not reported |
| Site Description: | Not reported |

**CERCLIS Assessment History:**

- **Action Code:** 001
- **Action:** REMOVAL
- **Date Started:** 01/13/10
- **Date Completed:** 01/18/10
- **Priority Level:** Cleaned up
- **Operable Unit:** SITEWIDE
- **Primary Responsibility:** EPA Fund-Financed
- **Planning Status:** Primary
- **Urgency Indicator:** Time Critical
- **Action Anomaly:** Not reported

For detailed financial records, contact EDR for a Site Report.

- **Site Code:** Not reported
- **Status Date:** 09/27/1993
- **File Location:** Regional Board
- **Local Agency:** SONOMA COUNTY
- **RB Case Number:** 1NSO366
- **Potential Media Affected:** Aquifer used for drinking water supply, Soil, Well used for drinking water supply
- **Potential Contaminants of Concern:** Gasoline
- **Site History:** Not reported

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**FOUCHE AUTO WRECKERS**

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<th>Higher</th>
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<tr>
<td>Actual:</td>
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**SLIC:** STATE

**Facility Status:** Open - Assessment & Interim Remedial Action

- **Status Date:** 09/20/2001
- **Global Id:** T0609793108
- **Lead Agency:** NORTH COAST RWQCB (REGION 1)
- **Lead Agency Case Number:** Not reported
- **Latitude:** 38.416098
- **Longitude:** -122.723343
- **Case Type:** Cleanup Program Site
- **Case Worker:** JMG
- **File Location:** Regional Board
- **Potential Media Affected:** Aquifer used for drinking water supply, Soil, Well used for drinking water supply
- **Potential Contaminants of Concern:** Gasoline
- **Site History:** Not reported

**Click here to access the California GeoTracker records for this facility:**

---

**ENVIROSTOR:**

- **Facility ID:** 49500004
- **Status:** Refer: RWQCB
- **Status Date:** 09/27/1993
- **Site Code:** Not reported
FOUCHE AUTO WRECKERS (Continued)  S108213818

Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 10
Senate: 02
Special Program: * Rural County Survey Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.41731
Longitude: -122.7219
APN: 043-041-001
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
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Alias Type: APN
Alias Name: 49500004
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/22/1988
Comments: SITE SCREENING DONE AUTO DISMANTLER, POSS ONSITE DISP

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
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Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
REDWOOD CHEMICAL  
2450 STONEY POINT ROAD  
SANTA ROSA, CA  95407

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/25/1988
Comments: SITE SCREENING DONE POSS ONITE CONTAM

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/25/2008
Comments: Investigations and cleanup were conducted and a No Further Action letter was issued by the Santa Rosa Fire Dept. on May 26, 1998.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/23/1988
The RWQCB has completed underground tank investigations at several locations in the study area. The primary threat is from consumption of contaminated well water. Migration of ground water contaminants may result in the contamination of additional wells. Currently there are no identified responsible parties. Therefore, Bond funds will become available for this site.

Ground water contamination in privately-owned wells has been discovered. The primary threat is from consumption of contaminated well water. Migration of ground water contaminants may result in the contamination of additional wells. Currently there are no identified responsible parties. Therefore, Bond funds will become available for this site.

The preliminary site assessment and investigation (PSAI) has been completed and the final report was issued in July, 1987. Soil gas sampling was conducted in August, 1987. Implementation of the first Phase of the RI started June, 1988. The work to be completed in this Phase includes drilling, installation and sampling of ground water monitoring wells, drilling stratigraphic boreholes and aquifer testing. Data generated will be used to identify sources of contamination and potential RPs and to determine the direction of future work. The RWQCB has completed underground tank investigations at several locations in the study area.
### MCMINN AVENUE (Continued)

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### MCMinn Avenue (Continued)

| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | * Discovery |
| Completed Date: | 04/21/1988 |
| Comments: | Facility Identified: BEP - fuel oil 440,000 ug/l & gasoline detected in well. No RP identified. Site Screening Done: BEP site. |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

**15**

| ANGIE KENDALL | Notify 65 |
| West | SANTA ROSA, CA 93582 |
| 2611 GIFFEN AVENUE | S100179177 |
| 1/2-1 | N/A |
| 0.687 mi. | 3629 ft. |

| NOTIFY 65: | |
| Date Reported: | Not reported |
| Staff Initials: | Not reported |
| Board File Number: | Not reported |
| Facility Type: | Not reported |
| Discharge Date: | Not reported |
| Incident Description: | 93582 |

**16**

| WILSON BAUGH ENTERPRISES | Notify 65 |
| NNW | SANTA ROSA, CA 93582 |
| 805 SEBASTOPAL | S100179383 |
| 1/2-1 | N/A |
| 0.694 mi. | 3663 ft. |

<p>| NOTIFY 65: | |
| Date Reported: | Not reported |
| Staff Initials: | Not reported |
| Board File Number: | Not reported |
| Facility Type: | Not reported |
| Discharge Date: | Not reported |
| Incident Description: | 93582 |</p>
<table>
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<tr>
<th>Site Address</th>
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| WESCOTTS AUTO & TRUCK | SLIC | CUPA Listings, ENVIRONMENTAL,
| 1569 SEBASTOPOL RD | S101482592 | ENVIRONMENTAL,
| SANTA ROSA, CA 95407 | N/A | WDS |

**Site Details:**
- **Relative:** Higher
- **Actual:** 131 ft.

**Facility Status:**
- **Status Date:** 02/26/2009
- **Global Id:** T0609793338
- **Lead Agency:** NORTH COAST RWQC (REGION 1)
- **Lead Agency Case Number:** Not reported
- **Latitude:** 38.427848
- **Longitude:** -122.736929
- **Case Type:** Cleanup Program Site
- **Case Worker:** ZZZ
- **Local Agency:** SANTA ROSA, CITY OF
- **RB Case Number:** 1NSR285
- **File Location:** Regional Board
- **Potential Media Affected:** Under Investigation
- **Potential Contaminants of Concern:** Not reported
- **Site History:** Not reported

**CUPA SONOMA:**
- **Permit:** 567
- **Type:** 3
- **HMBP:** True
- **UST:** False
- **HWG:** True
- **calarp:** False
- **AST:** False
- **HW Treatment:** False

**ENVIROSTOR:**
- **Facility ID:** 49500010
- **Status:** Refer: RWQC
- **Status Date:** 09/27/1993
- **Site Code:** Not reported
- **Site Type:** Historical
- **Site Type Detailed:** * Historical
- **Acres:** Not reported
- **NPL:** NO
- **Regulatory Agencies:** NONE SPECIFIED
- **Lead Agency:** NONE SPECIFIED
- **Program Manager:** Not reported
- **Supervisor:** Referred - Not Assigned
- **Division Branch:** Cleanup Berkeley
- **Assembly:** 10
- **Senate:** 02
- **Special Program:** * Rural County Survey Program
- **Restricted Use:** NO
- **Site Mgmt Req:** NONE SPECIFIED
- **Funding:** Not reported
- **Latitude:** 38.42910
- **Longitude:** -122.7370

Click here to access the California GeoTracker records for this facility:
WESCOTTS AUTO & TRUCK (Continued)

APN: 125-081-032
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-081-032
Alias Type: APN
Alias Name: 49500010
Alias Type: Envirotor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/22/1988
Comments: SITE SCREENING DONE SIC CODE

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

WDS:
Facility ID: 491000306
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS0000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 1
Facility Telephone: Not reported
Facility Contact: BOB WESCOTT
Agency Name: WESCOTTS BOB
Agency Address: 3664 FIR RIDGE DR
Agency City,St,Zip: SANTA ROSA 95403
Agency Contact: BOB WESCOTT
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 3714
SIC Code 2: Not reported
Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Primary Waste: STORMS
WESCOTTS AUTO & TRUCK (Continued)

Waste Type 2: Not reported
Waste 2: Stormwater Runoff
Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.

POTW: The facility is not a POTW.
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

18 GREG'S AUTOMOTIVE
ESE DUTTON
1/2-1 SANTA ROSA, CA 93582
Notify 65 S100179294

Relative: Higher
Actual: 134 ft.

19 ALMETCO, INC.
NNW 1733 SEBASTOPOL ROAD SANTA ROSA, CA 0

Relative: Higher
Actual: 129 ft.
### ALMETCO, INC. (Continued)

**LUST:**
- **Region:** STATE
- **Global Id:** T0609700329
- **Latitude:** 38.428743
- **Longitude:** -122.738912
- **Case Type:** LUST Cleanup Site
- **Status:** Completed - Case Closed
- **Status Date:** 09/19/2005
- **Lead Agency:** NORTH COAST RWQCB (REGION 1)
- **Case Worker:** ZZZ
- **Local Agency:** SONOMA COUNTY
- **RB Case Number:** 1TSO463
- **LOC Case Number:** Not reported
- **File Location:** Regional Board
- **Potential Media Affect:** Well used for drinking water supply
- **Potential Contaminants of Concern:** Gasoline
- **Site History:** Not reported

Click here to access the California GeoTracker records for this facility.

**Contact:**
- **Global Id:** T0609700329
- **Contact Type:** Regional Board Caseworker
- **Contact Name:** REGIONAL WATER BOARD SITE CLOSED
- **Organization Name:** NORTH COAST RWQCB (REGION 1)
- **Address:** 5550 SKYLANE BOULEVARD, SUITE A
- **City:** SANTA ROSA
- **Email:** craig.hunt@waterboards.ca.gov
- **Phone Number:** 7075762220

- **Global Id:** T0609700329
- **Contact Type:** Local Agency Caseworker
- **Contact Name:** ENVIRON HEALTH STAFF (NON LOP-RB1)
- **Organization Name:** SONOMA COUNTY
- **Address:** 625 5th Street
- **City:** SANTA ROSA
- **Email:** Not reported
- **Phone Number:** Not reported

**Status History:**
- **Global Id:** T0609700329
- **Status:** Completed - Case Closed
- **Status Date:** 09/19/2005

- **Global Id:** T0609700329
- **Status:** Open - Case Begin Date
- **Status Date:** 08/30/1991

- **Global Id:** T0609700329
- **Status:** Open - Site Assessment
- **Status Date:** 08/30/1991

- **Global Id:** T0609700329
- **Status:** Open - Site Assessment
- **Status Date:** 12/26/2000

- **Global Id:** T0609700329
ALMETCO, INC. (Continued)

Status: Open - Site Assessment
Status Date: 04/27/2001

Regulatory Activities:
Global Id: T0609700329
Action Type: Other
Date: 08/30/1991
Action: Leak Discovery

Global Id: T0609700329
Action Type: ENFORCEMENT
Date: 06/02/2005
Action: Notification - Public Notice of Case Closure

Global Id: T0609700329
Action Type: ENFORCEMENT
Date: 08/02/2005
Action: Technical Correspondence / Assistance / Other

Global Id: T0609700329
Action Type: Other
Date: 08/30/1991
Action: Leak Stopped

Global Id: T0609700329
Action Type: ENFORCEMENT
Date: 09/19/2005
Action: Closure/No Further Action Letter

Global Id: T0609700329
Action Type: Other
Date: 08/30/1991
Action: Leak Reported

SLIC:
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 09/19/2005
Global Id: T0609791135
Lead Agency: NORTH COAST RWQCB (REGION 1)
Lead Agency Case Number: Not reported
Latitude: 38.428743
Longitude: -122.738912
Case Type: Cleanup Program Site
Case Worker: ZZZ
Local Agency: SONOMA COUNTY
RB Case Number: 1NSO463
File Location: Regional Board
Potential Media Affected: Well used for drinking water supply
Potential Contaminants of Concern: Chromium, * Solvents
Site History: Not reported

Click here to access the California GeoTracker records for this facility:
ALMETCO, INC. (Continued)

SLIC REG 1:

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<th>Region</th>
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<th>Consolidated Emission Reporting Rule</th>
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<th>Reactive Organic Gases Tons/Yr</th>
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### ALMETCO, INC. (Continued)

#### Completed Info:
- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Site Screening
- **Completed Date:** 04/21/1988
- **Comments:** SITE SCREENING DONE POSS ONSITE CONTAM

#### Future Info:
- **Future Area Name:** Not reported
- **Future Sub Area Name:** Not reported
- **Future Document Type:** Not reported
- **Future Due Date:** Not reported
- **Schedule Area Name:** Not reported
- **Schedule Sub Area Name:** Not reported
- **Schedule Document Type:** Not reported
- **Schedule Due Date:** Not reported
- **Schedule Revised Date:** Not reported

#### Facility Information:
- **Location:** 1175 SEBASTOPOL ROAD, SANTA ROSA, CA 95401
- **Relative: 136 ft. 3757 ft.**
- **HIST CORTESE:**
  - **Region:** CORTESE
  - **Facility County Code:** 49
  - **Reg By:** LTNKA
  - **Reg Id:** 1TSO271

#### LUST Information:
- **Region:** STATE
- **Global Id:** T0609700202
- **Latitude:** 38.429348228
- **Longitude:** -122.732258
- **Case Type:** LUST Cleanup Site
- **Status:** Open - Remediation
- **Status Date:** 04/10/2014
- **Lead Agency:** NORTH COAST RWQCB (REGION 1)
- **Case Worker:** JBL
- **Local Agency:** SONOMA COUNTY
- **RB Case Number:** 1TSO271
- **LOC Case Number:** Not reported
- **File Location:** Regional Board
- **Potential Media Affect:** Aquifer used for drinking water supply
- **Potential Contaminants of Concern:** Benzene, Other Chlorinated Hydrocarbons, Toluene, Xylene, Lead, Diesel, MTBE / TBA / Other Fuel Oxygenates, Gasoline
- **Site History:** Former USTs/ASTs. Soil and groundwater impacted with gasoline, BTEX, and MTBE. Extent of contamination has been defined. Corrective action plan needs to be developed and implemented.
S.W. BROWN (Continued)  S104163223

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id:    T0609700202
Contact Type: Local Agency Caseworker
Contact Name: CITY OF SANTA ROSA FIRE DEPARTMENT
Organization Name: CITY OF SANTA ROSA FIRE DEPARTMENT
Address: 965 SONOMA AVENUE
City: SANTA ROSA
Email: Not reported
Phone Number: Not reported

Status History:
Global Id:    T0609700202
Status: Open - Site Assessment  Status Date: 03/21/2006

Global Id:    T0609700202
Status: Open - Remediation  Status Date: 04/10/2014

Global Id:    T0609700202
Status: Open - Case Begin Date  Status Date: 11/09/1998

Global Id:    T0609700202
Status: Open - Remediation  Status Date: 10/01/2001

Global Id:    T0609700202
Status: Open - Remediation  Status Date: 11/15/2001

Global Id:    T0609700202
Status: Open - Remediation  Status Date: 04/14/2005

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**Regulatory Activities:**

- **Global Id:** T0609700202
- **Action Type:** ENFORCEMENT
- **Date:** 09/13/2002
- **Action:** Staff Letter

- **Global Id:** T0609700202
- **Action Type:** ENFORCEMENT
- **Date:** 09/13/2001
- **Action:** Staff Letter

- **Global Id:** T0609700202
- **Action Type:** ENFORCEMENT
- **Date:** 11/15/2001
- **Action:** Site Visit / Inspection / Sampling

- **Global Id:** T0609700202
- **Action Type:** ENFORCEMENT
- **Date:** 04/19/2002
- **Action:** Staff Letter

- **Global Id:** T0609700202
- **Action Type:** ENFORCEMENT
- **Date:** 12/22/2003
- **Action:** Staff Letter

- **Global Id:** T0609700202
- **Action Type:** ENFORCEMENT
- **Date:** 10/24/2001
- **Action:** Staff Letter

- **Global Id:** T0609700202
- **Action Type:** ENFORCEMENT
- **Date:** 04/06/2010
- **Action:** Staff Letter

- **Global Id:** T0609700202
- **Action Type:** RESPONSE
S.W. BROWN (Continued)

Date: 12/28/2001
Action: Monitoring Report - Quarterly

Global Id: T0609700202
Action Type: RESPONSE
Date: 10/17/2001
Action: Interim Remedial Action Plan

Global Id: T0609700202
Action Type: RESPONSE
Date: 02/14/2014
Action: Remedial Investigation Workplan - Regulator Responded

Global Id: T0609700202
Action Type: ENFORCEMENT
Date: 10/21/2003
Action: Staff Letter

Global Id: T0609700202
Action Type: ENFORCEMENT
Date: 11/18/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0609700202
Action Type: ENFORCEMENT
Date: 08/31/2005
Action: Staff Letter

Global Id: T0609700202
Action Type: ENFORCEMENT
Date: 11/18/2005
Action: Staff Letter

Global Id: T0609700202
Action Type: ENFORCEMENT
Date: 02/20/2004
Action: * No Action

Global Id: T0609700202
Action Type: ENFORCEMENT
Date: 05/06/2004
Action: Staff Letter

Global Id: T0609700202
Action Type: ENFORCEMENT
Date: 02/04/2005
Action: * Verbal Communication

Global Id: T0609700202
Action Type: ENFORCEMENT
Date: 08/17/2011
Action: Staff Letter
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S.W. BROWN (Continued)

Global Id: T0609700202
Action Type: RESPONSE
Date: 11/10/2010
Action: Site Assessment Report - Regulator Responded

LUST REG 1:
Region: 1
Facility ID: 1TSO271
Staff Initials: WTE

ENVIROSTOR:
Facility ID: 49500003
Status: Refer: RWQCB
Status Date: 09/27/1993
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 10
Senate: 02
Special Program: * Rural County Survey Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.42956
Longitude: -122.7334
APN: 125-091-030
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-091-030
Alias Type: APN
Alias Name: 49500003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/22/1988
Comments: SITE SCREENING DONE POTENTIAL ONSITE CONTAM

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/15/1988
Comments: FACILITY IDENTIFIED SONOMA COUNTY EH - JUNK AUTO WET CELL BATTERIES BURIED AT SITE, VISIBLE CONTAMINATION 10' X 30'
S.W. BROWN (Continued)

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

21 NW 1/2-1 0.728 mi. 3843 ft.
SANTA ROSA, CA 95401

NPDES:
Npdes Number: CAS000001
Agency Id: 0
Region: 1
Regulatory Measure Id: 178811
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 1 491003958
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 04/03/1992
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Michael J Marquis
Discharge Address: 1885 Sebastopol Rd
Discharge City: Santa Rosa
Discharge State: California
Discharge Zip: 95407
RECEIVED DATE: Not reported
PROCESSED DATE: Not reported
STATUS CODE NAME: Not reported
STATUS DATE: Not reported
PLACE SIZE: Not reported
PLACE SIZE UNIT: Not reported
FACILITY CONTACT NAME: Not reported
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: Not reported
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Not reported
OPERATOR ADDRESS: Not reported
OPERATOR CITY: Not reported
OPERATOR STATE: Not reported
OPERATOR ZIP: Not reported
OPERATOR CONTACT NAME: Not reported
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: Not reported
OPERATOR CONTACT PHONE EXT: Not reported
ACME AUTO WRECKERS, INC. (Continued)

OPERATOR CONTACT EMAIL: Not reported
OPERATOR TYPE: Not reported
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: Not reported
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERTIAL IND: Not reported
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CONSTYPE RECONS IND: Not reported
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CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: Not reported
RECEIVING WATER NAME: Not reported
CERTIFIER NAME: Not reported
CERTIFIER TITLE: Not reported
CERTIFICATION DATE: Not reported
PRIMARY SIC: Not reported
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported
NPDES Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 1
Regulatory Measure Id: 178811
Order No: Not reported
Regulatory Measure Type: Industrial
Place Id: Not reported
WDID: 1 491003958
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 05/09/2008
ACME AUTO WRECKERS, INC. (Continued)

PROCESSED DATE: 04/03/1992
STATUS CODE NAME: Active
STATUS DATE: 04/03/1992
PLACE SIZE: 2
PLACE SIZE UNIT: Acres
FACILITY CONTACT NAME: Michael J Marquis
FACILITY CONTACT TITLE: Not reported
FACILITY CONTACT PHONE: 707-545-9075
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: Not reported
OPERATOR NAME: Michael J Marquis
OPERATOR ADDRESS: 1885 Sebastopol Rd
OPERATOR CITY: Santa Rosa
OPERATOR STATE: California
OPERATOR ZIP: 95407
OPERATOR CONTACT NAME: Michael J Marquis
OPERATOR CONTACT TITLE: Not reported
OPERATOR CONTACT PHONE: 707-545-9075
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: Not reported
OPERATOR TYPE: Private Business
DEVELOPER NAME: Not reported
DEVELOPER ADDRESS: Not reported
DEVELOPER CITY: Not reported
DEVELOPER STATE: California
DEVELOPER ZIP: Not reported
DEVELOPER CONTACT NAME: Not reported
DEVELOPER CONTACT TITLE: Not reported
CONSTYPE LINEAR UTILITY IND: Not reported
EMERGENCY PHONE NO: 707-545-9075
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
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CONSTYPE ELECTRICAL LINE IND: Not reported
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CONSTYPE OTHER DESCRIPTION: Not reported
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CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Not reported
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USEWATER IND: Not reported
RECEIVING WATER NAME: Stony Point & Seb Rd.
CERTIFIER NAME: Not reported
CERTIFIER TITLE: Not reported
CERTIFICATION DATE: Not reported
PRIMARY SIC: 5015-Motor Vehicle Parts, Used
SECONDARY SIC: 5093-Scrap and Waste Materials
TERTIARY SIC: Not reported
ACME AUTO WRECKERS, INC.  (Continued)

HIST CORTESE:
Region: CORTESE
Facility County Code: 49
Reg By: WBC&D
Reg Id: 1B1SR126NUG

SLIC:
Region: STATE
Facility Status: Open - Inactive
Status Date: 10/27/2014
Global Id: T0609793206
Lead Agency: NORTH COAST RWQCB (REGION 1)
Lead Agency Case Number: Not reported
Latitude: 38.4281769447897
Longitude: -122.73996591568
Case Type: Cleanup Program Site
Case Worker: BML
Local Agency: SONOMA COUNTY
RB Case Number: 1NSR126
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Lead, MTBE / TBA / Other Fuel Oxygenates
Site History:
In a letter dated August 13, 2014 NORWQCB determined that a no further remedial action was required for groundwater impacted with petroleum hydrocarbons or associated compounds. Groundwater monitoring wells were removed from the site. However, soil impacts have been documented at this site, the result of past poor management practices. Lead has been detected in soil at concentrations above hazardous waste levels. Full closure of the environmental investigation of this site will not be complete without characterization and remediation of soil impacts. Since 1997, when a Cease and Desist order (Order No. 97-32) was issued to stop discharges to waters of the state, this site has been in compliance with best stormwater management practices. However, this is an active auto salvaging facility; therefore, until this use changes and salvage materials are removed from the site, the environmental investigation will not be complete. In the interim, compliance with the industrial storm water program is required.

Click here to access the California GeoTracker records for this facility:

CUPA SONOMA:
Permit: 1884
Type: 6
HMBP: True
UST: False
HWG: True
calarp: False
AST: False
HW Treatment: False

ENF:
Region: 1
Facility Id: 204379
Agency Name: Not reported
ACME AUTO WRECKERS, INC. (Continued)  

Place Type: Service/Commercial  
Place Subtype: Service/Commercial Site, NEC  
Facility Type: All other facilities  
Agency Type: Not reported  
# Of Agencies: Not reported  
Place Latitude: 38.42832  
Place Longitude: -122.73998  
SIC Code 1: 5541  
SIC Desc 1: Gasoline Service Stations  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported  
NAICS Desc 2: Not reported  
NAICS Code 3: Not reported  
NAICS Desc 3: Not reported  
# Of Places: 1  
Source Of Facility: Enf Action  
Design Flow: Not reported  
Threat To Water Quality: Not reported  
Complexity: Not reported  
Pretreatment: Not reported  
Facility Waste Type: Not reported  
Facility Waste Type 2: Not reported  
Facility Waste Type 3: Not reported  
Facility Waste Type 4: Not reported  
Program: Not reported  
Program Category 1: Not reported  
Program Category 2: TANKS  
# Of Programs: Not reported  
WDID: Not reported  
Reg Measure Id: Not reported  
Reg Measure Type: Not reported  
Region: Not reported  
Order #: Not reported  
Npdes# CA#: Not reported  
Major-Minor: Not reported  
Npdes Type: Not reported  
Reclamation: Not reported  
Dredge Fill Fee: Not reported  
301H: Not reported  
Application Fee Amt Received: Not reported  
Status: Not reported  
Status Date: Not reported  
Effective Date: Not reported  
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Termination Date: Not reported  
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WDR Review - Revise/Renew: Not reported  
WDR Review - Rescind: Not reported  
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| Place Type: | Service/Commercial |
| Place Subtype: | Service/Commercial Site, NEC |
| Facility Type: | All other facilities |
| Agency Type: | Not reported |
| # Of Agencies: | Not reported |
| Place Latitude: | 38.42832 |
| Place Longitude: | -122.73998 |
| SIC Code 1: | 5541 |
| SIC Desc 1: | Gasoline Service Stations |
| SIC Code 2: | Not reported |
| SIC Desc 2: | Not reported |
| SIC Code 3: | Not reported |
| SIC Desc 3: | Not reported |
| NAICS Code 1: | Not reported |
| NAICS Desc 1: | Not reported |
| NAICS Code 2: | Not reported |
| NAICS Desc 2: | Not reported |
| NAICS Code 3: | Not reported |
| NAICS Desc 3: | Not reported |
| # Of Places: | 1 |
| Source Of Facility: | Enf Action |
| Design Flow: | Not reported |
| Threat To Water Quality: | Not reported |
| Complexity: | Not reported |
| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
### ACME AUTO WRECKERS, INC. (Continued)

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<td>Description:</td>
<td>CEASE &amp; DESIST FROM THREATENING DISCHARGE IN VIOLATION OF 92-12 DWQ.</td>
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<td>Project $ Amount: 0.00</td>
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<td>Liability $ Paid: 0.00</td>
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ACME AUTO WRECKERS, INC. (Continued)

Region: 1
Facility Id: 204379
Agency Name: Not reported
Place Type: Service/Commercial
Place Subtype: Service/Commercial Site, NEC
Facility Type: All other facilities
Agency Type: Not reported
# Of Agencies: Not reported
Place Latitude: 38.42832
Place Longitude: -122.73998
SIC Code 1: 5541
SIC Desc 1: Gasoline Service Stations
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
# Of Places: 1
Source Of Facility: Enf Action
Design Flow: Not reported
Threat To Water Quality: Not reported
Complexity: Not reported
Pretreatment: Not reported
Facility Waste Type: Not reported
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: Not reported
Program Category 1: Not reported
Program Category 2: TANKS
# Of Programs: Not reported
WDID: Not reported
Reg Measure Id: Not reported
Reg Measure Type: Not reported
Region: Not reported
Order #: Not reported
Npdes# CA#: Not reported
Major-Minor: Not reported
Npdes Type: Not reported
Reclamation: Not reported
Dredge Fill Fee: Not reported
301H: Not reported
Application Fee Amt Received: Not reported
Status: Not reported
Status Date: Not reported
Effective Date: Not reported
Expiration/Review Date: Not reported
Termination Date: Not reported
WDR Review - Amend: Not reported
WDR Review - Revise/Renew: Not reported
WDR Review - Rescind: Not reported
WDR Review - No Action Required: Not reported
ACME AUTO WRECKERS, INC. (Continued)

- WDR Review - Pending: Not reported
- WDR Review - Planned: Not reported
- Status Enrollee: Not reported
- Individual/General: Not reported
- Fee Code: Not reported
- Direction/Voice: Not reported
- Enforcement Id(EID): 221014
- Region: 1
- Order / Resolution Number: LT960322
- Enforcement Action Type: Staff Enforcement Letter
- Effective Date: 03/22/1996
- Adoption/Issuance Date: Not reported
- Achieve Date: Not reported
- Termination Date: 03/22/1996
- ACL Issuance Date: Not reported
- EPL Issuance Date: Not reported
- Status: Historical
- Title: Enforcement - 1B1SR126NUG Acme Auto Wreckers, Inc.
- Description: REQUESTING SUBMITTAL OF STATUS REPORT.
- Program: SLIC
- Latest Milestone Completion Date: 7/22/1998
- # Of Programs: 1
- Total Assessment Amount: 0.00
- Initial Assessed Amount: 0.00
- Liability $ Amount: 0.00
- Project $ Amount: 0.00
- Liability $ Paid: 0.00
- Project $ Completed: 0.00
- Total $ Paid/Completed Amount: 0.00

Region: 1
Facility Id: 204379
Agency Name: Not reported
Place Type: Service/Commercial
Place Subtype: Service/Commercial Site, NEC
Facility Type: All other facilities
Agency Type: Not reported
# Of Agencies: Not reported
Place Latitude: 38.42832
Place Longitude: -122.73998
SIC Code 1: 5541
SIC Desc 1: Gasoline Service Stations
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
# Of Places: 1
Source Of Facility: Enf Action
Design Flow: Not reported
Threat To Water Quality: Not reported
Complexity: Not reported
ACME AUTO WRECKERS, INC. (Continued)

| Pretreatment: | Not reported |
| Facility Waste Type: | Not reported |
| Facility Waste Type 2: | Not reported |
| Facility Waste Type 3: | Not reported |
| Facility Waste Type 4: | Not reported |
| Program: | Not reported |
| Program Category1: | Not reported |
| Program Category2: | TANKS |
| # Of Programs: | Not reported |
| WDID: | Not reported |
| Reg Measure Id: | Not reported |
| Reg Measure Type: | Not reported |
| Region: | Not reported |
| Order #: | Not reported |
| Npdes# CA#: | Not reported |
| Major-Minor: | Not reported |
| Npdes Type: | Not reported |
| Reclamation: | Not reported |
| Dredge Fill Fee: | Not reported |
| 301H: | Not reported |
| Application Fee Amt Received: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
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| WDR Review - Revise/Renew: | Not reported |
| WDR Review - Rescind: | Not reported |
| WDR Review - No Action Required: | Not reported |
| WDR Review - Pending: | Not reported |
| WDR Review - Planned: | Not reported |
| Status Enrollee: | Not reported |
| Individual/General: | Not reported |
| Fee Code: | Not reported |
| Direction/Voice: | Not reported |
| Enforcement Id(EID): | 220951 |
| Region: | 1 |
| Order / Resolution Number: | 92-124 |
| Enforcement Action Type: | Clean-up and Abatement Order |
| Effective Date: | 09/21/1992 |
| Adoption/Issuance Date: | Not reported |
| Achieve Date: | Not reported |
| Termination Date: | 05/14/2003 |
| ACL Issuance Date: | Not reported |
| EPL Issuance Date: | Not reported |
| Status: | Historical |
| Title: | Enforcement - 1B1SR126NUG Acme Auto Wreckers, Inc. |
| Description: | CAO REQUIRES INVESTIGATION OF SOIL & GW CONTAMINATION. ORDER ISSUED TO ENSURE PROMPT & COMPLETE INVE |
| Program: | SLIC |
| Latest Milestone Completion Date: | 7/22/1998 |
| # Of Programs1: | 1 |
| Total Assessment Amount: | 0.00 |
| Initial Assessed Amount: | 0.00 |
| Liability $ Amount: | 0.00 |
| Project $ Amount: | 0.00 |
ACME AUTO WRECKERS, INC. (Continued)  S100183332

Liability $ Paid: 0.00  
Project $ Completed: 0.00  
Total $ Paid/Completed Amount: 0.00

Region: 1  
Facility Id: 204379  
Agency Name: Not reported  
Place Type: Service/Commercial  
Place Subtype: Service/Commercial Site, NEC  
Agency Type: Not reported  
# Of Agencies: Not reported  
Place Latitude: 38.42832  
Place Longitude: -122.73998  
SIC Code 1: 5541  
SIC Desc 1: Gasoline Service Stations  
SIC Code 2: Not reported  
SIC Desc 2: Not reported  
SIC Code 3: Not reported  
SIC Desc 3: Not reported  
NAICS Code 1: Not reported  
NAICS Desc 1: Not reported  
NAICS Code 2: Not reported  
NAICS Desc 2: Not reported  
NAICS Code 3: Not reported  
NAICS Desc 3: Not reported  
# Of Places: 1  
Source Of Facility: Enf Action  
Design Flow: Not reported  
Threat To Water Quality: Not reported  
Complexity: Not reported  
Pretreatment: Not reported  
Facility Waste Type: Not reported  
Facility Waste Type 2: Not reported  
Facility Waste Type 3: Not reported  
Facility Waste Type 4: Not reported  
Program: Not reported  
Program Category1: Not reported  
Program Category2: TANKS  
# Of Programs: Not reported  
WDID: Not reported  
Reg Measure Id: Not reported  
Reg Measure Type: Not reported  
Region: Not reported  
Order #: Not reported  
Npdes# CA#: Not reported  
Major-Minor: Not reported  
Npdes Type: Not reported  
Reclamation: Not reported  
Dredge Fill Fee: Not reported  
301H: Not reported  
Application Fee Amt Received: Not reported  
Status: Not reported  
Status Date: Not reported  
Effective Date: Not reported  
Expiration/Review Date: Not reported  
Termination Date: Not reported
**ACME AUTO WRECKERS, INC. (Continued)**

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<td>WDR Review - Rescind:</td>
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<td>Supervisor:</td>
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<td>Division Branch:</td>
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<td>Assembly:</td>
<td>10</td>
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<tr>
<td>Senate:</td>
<td>02</td>
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<tr>
<td>Special Program:</td>
<td>* Rural County Survey Program</td>
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<td>Funding:</td>
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<td>Latitude:</td>
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<tr>
<td>Longitude:</td>
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</table>
rubble and concrete are examples of this category. Such wastes could cause turbidity and siltation. Uncontaminated soils, or organic wastes and have little adverse impact on water quality.

Inert/Influent or Solid Wastes that do not contain soluble pollutants

Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Primary Waste: STORMS
Waste Type2: Not reported
Waste2: Stormwater Runoff
Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.

POTW: The facility is not a POTW.
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

ACME AUTO WRECKERS, INC. (Continued)

22 North
1/2-1 0.760 mi.
4011 ft.

Relative: Higher
Actual: 139 ft.

22 North
1/2-1 0.760 mi.
4011 ft.

COAST AUTO WRECKING
949 SEBASTOPOL RD
SANTA ROSA, CA 95401

ENVIROSTOR S101482588
N/A

ENVIROSTOR:
Facility ID: 49500001
Status: Refer: RWQCB
Status Date: 10/08/1993
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Assembly: 10
Senate: 02
Special Program: * Rural County Survey Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.43032
Longitude: -122.7307
APN: 125-101-049
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
## COAST AUTO WRECKING (Continued)

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### Completed Info:

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Site Screening
- **Completed Date:** 04/21/1988
- **Comments:** SITE SCREENING DONE POSS ONSITE CONTAM

### Future Info:

- **Future Area Name:** Not reported
- **Future Sub Area Name:** Not reported
- **Future Document Type:** Not reported
- **Future Due Date:** Not reported

### Schedule Info:

- **Schedule Area Name:** Not reported
- **Schedule Sub Area Name:** Not reported
- **Schedule Document Type:** Not reported
- **Schedule Due Date:** Not reported
- **Schedule Revised Date:** Not reported

---

### SEBASTOPAL B.P.

- **Notify 65:** S100179311
- **Board File Number:** N/A

#### 23

- **North:** SEBASTOPAL B.P.
- **1/2-1:** SEBASTOPAL B.P.
- **SANTA ROSA, CA 93582:** 0.761 mi.
- **4017 ft.**

#### Notify 65:

- **Relative:** Higher
- **Actual:** 140 ft.

#### NOTIFICATION

- **Date Reported:** Not reported
- **Staff Initials:** Not reported
- **Board File Number:** Not reported
- **Facility Type:** Not reported
- **Discharge Date:** Not reported
- **Incident Description:** 93582

---

### EXCHANGE BANK DATA CENTER

- **Notify 65:** U000067321
- **Board File Number:** N/A

#### 24

- **NNE:** EXCHANGE BANK DATA CENTER
- **1/2-1:** EXCHANGE BANK DATA CENTER
- **SANTA ROSA, CA 93582:** 0.769 mi.
- **4059 ft.**

#### Notify 65:

- **Relative:** Higher
- **Actual:** 141 ft.

#### NOTIFICATION

- **Date Reported:** Not reported
- **Staff Initials:** Not reported
- **Board File Number:** Not reported
- **Facility Type:** Not reported
- **Discharge Date:** Not reported
- **Incident Description:** 93582
<table>
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<tr>
<th>25</th>
<th>2789 NORTHPOINT PARKWAY</th>
<th>SANTA ROSA, CA 95407</th>
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**Corteese:**
- Region: Corteese
- Envirostor Id: Not reported
- Site/Facility Type: Not reported
- Cleanup Status: Not reported
- Status Date: Not reported
- Site Code: Not reported
- Latitude: Not reported
- Longitude: Not reported
- Owner: Not reported
- Enf Type: Not reported
- Swat R: Not reported
- Flag: Corteese
- Order No: R1-1999-0029
- Waste Discharge System No: Not reported
- Effective Date: 07/21/1999
- Region 2: 1
- WID Id: 1B88067NSON
- Solid Waste Id No: Not reported
- Waste Management Util Name: Not reported

**HIST Corteese:**
- Region: Corteese
- Facility County Code: 49
- Reg By: WBC&D
- Reg Id: 1B88067NSON

**CA FID UST:**
- Facility ID: 490000002
- Regulated By: UTKNA
- Regulated ID: 00054602
- Cortese Code: Not reported
- SIC Code: Not reported
- Facility Phone: 7075257693
- Mail To: Not reported
- Mailing Address: 2789 NORTHPOINT PKY
- Mailing Address 2: Not reported
- Mailing City, St, Zip: SANTA ROSA 95407
- Contact: Not reported
- Contact Phone: Not reported
- DUNS Number: Not reported
- NPDES Number: Not reported
- EPA ID: Not reported
- Comments: Not reported
- Status: Active
### JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

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<tr>
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<tr>
<td>Status Date:</td>
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<td>Global Id:</td>
<td>T0609793183</td>
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<tr>
<td>Lead Agency:</td>
<td>NORTH COAST RWQCB (REGION 1)</td>
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<tr>
<td>Lead Agency Case Number:</td>
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<td>Local Agency:</td>
<td>SONOMA COUNTY</td>
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<td>RB Case Number:</td>
<td>1NSR095</td>
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<td>File Location:</td>
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<td>Potential Media Affected:</td>
<td>Aquifer used for drinking water supply, Well used for drinking water supply</td>
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<td>Potential Contaminants of Concern:</td>
<td>Trichloroethylene (TCE)</td>
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<tr>
<td>Site History:</td>
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Click here to access the California GeoTracker records for this facility:

### HIST UST:

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<th>Region:</th>
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<tr>
<td>Telephone:</td>
<td>7075257693</td>
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<tr>
<td>Owner Name:</td>
<td>OPTICAL COATING LABORATORY, IN</td>
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<tr>
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<td>2789 NORTHPOINT PARKWAY</td>
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<tr>
<td>Owner City,St,Zip:</td>
<td>SANTA ROSA, CA 95407</td>
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<td>Total Tanks:</td>
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| Tank Num:                      | 001 |
| Container Num:                 | 1 |
| Year Installed:                | Not reported |
| Tank Capacity:                 | 00002000 |
| Tank Used for:                 | PRODUCT |
| Type of Fuel:                  | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection:                | None |

| Tank Num:                      | 002 |
| Container Num:                 | 2 |
| Year Installed:                | 1979 |
| Tank Capacity:                 | 00001000 |
| Tank Used for:                 | PRODUCT |
| Type of Fuel:                  | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection:                | None |

| Tank Num:                      | 003 |
| Container Num:                 | 3 |
| Year Installed:                | Not reported |
| Tank Capacity:                 | 00001000 |
| Tank Used for:                 | WASTE |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tank Num: | 005 | Container Num: | 5 | Year Installed: | Not reported | Tank Capacity: | 00001500 | Tank Used for: | WASTE | Type of Fuel: | WASTE | Container Construction Thickness: | Not reported | Leak Detection: | Not reported |
| Tank Num: | 007 | Container Num: | 7 | Year Installed: | 1984 | Tank Capacity: | 00001000 | Tank Used for: | PRODUCT | Type of Fuel: | DIESEL | Container Construction Thickness: | Not reported | Leak Detection: | None |
JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued) 1000246761

SWEEPS UST:

Status: Active
Comp Number: 54602
Number: 9
Board Of Equalization: 44-028348
Referral Date: 07-01-85
Action Date: Not reported
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 49-060-054602-000001
Tank Status: A
Capacity: 2000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: Active
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Board Of Equalization: 44-028348
Referral Date: 07-01-85
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SWRCB Tank Id: 49-060-054602-000002
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Active Date: 07-01-85
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STG: P
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Number Of Tanks: 4

Status: Active
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Number: 9
Board Of Equalization: 44-028348
Referral Date: 07-01-85
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Capacity: 1000
Active Date: 07-01-85
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STG: P
Content: DIESEL
Number Of Tanks: 4

Status: Active
Comp Number: 54602
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Board Of Equalization: 44-028348
Referral Date: 07-01-85
### JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

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JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)  1000246761

Latest Milestone Completion Date: Not reported
# Of Programs: 1
Total Assessment Amount: 0.00
Initial Assessed Amount: 0.00
Liability $ Amount: 0.00
Project $ Amount: 0.00
Liability $ Paid: 0.00
Project $ Completed: 0.00
Total $ Paid/Completed Amount: 0.00

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Place Type: Service/Commercial
Place Subtype: Laboratory
Facility Type: All other facilities
Agency Type: Not reported
# Of Agencies: Not reported
Place Latitude: 38.415042
Place Longitude: -122.761606
SIC Code 1: 3827
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SIC Code 2: Not reported
SIC Desc 2: Not reported
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SIC Desc 3: Not reported
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NAICS Desc 3: Not reported
# Of Places: 1
Source Of Facility: Enf Action
Design Flow: Not reported
Threat To Water Quality: Not reported
Complexity: Not reported
Pretreatment: Not reported
Facility Waste Type: Not reported
Facility Waste Type 2: Not reported
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Program: Not reported
Program Category1: Not reported
Program Category2: NPDESWW
# Of Programs: Not reported
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Major-Minor: Not reported
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**JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)**

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JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

EPL Issuance Date: Not reported
Status: Historical
Title: Enforcement - 1B88067NSON JDSU (formerly Optical Coating Laboratories, Inc.)
Description: GRANTING EXTENSIONS TO COMPLETE THE GROUNDWATER TREATMENT PLANT AND FINAL REMEDIATION ACTION PLAN.
Program: NPDNONMUNIPRCS
Latest Milestone Completion Date: Not reported
# Of Programs: 1
Total Assessment Amount: 0.00
Initial Assessed Amount: 0.00
Liability $ Amount: 0.00
Project $ Amount: 0.00
Liability $ Paid: 0.00
Project $ Completed: 0.00
Total $ Paid/Completed Amount: 0.00

Region: 1
Facility Id: 246089
Agency Name: Not reported
Place Type: Service/Commercial
Place Subtype: Laboratory
Facility Type: All other facilities
Agency Type: Not reported
# Of Agencies: Not reported
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Place Longitude: -122.761606
SIC Code 1: 3827
SIC Desc 1: Optical Instruments and Lenses
SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
# Of Places: 1
Source Of Facility: Enf Action
Design Flow: Not reported
Threat To Water Quality: Not reported
Complexity: Not reported
Pretreatment: Not reported
Facility Waste Type: Not reported
Facility Waste Type 2: Not reported
Facility Waste Type 3: Not reported
Facility Waste Type 4: Not reported
Program: Not reported
Program Category1: Not reported
Program Category2: NPDESWW
# Of Programs: Not reported
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JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued) 1000246761

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SIC Code 2: Not reported
SIC Desc 2: Not reported
SIC Code 3: Not reported
SIC Desc 3: Not reported
NAICS Code 1: Not reported
NAICS Desc 1: Not reported
NAICS Code 2: Not reported
NAICS Desc 2: Not reported
NAICS Code 3: Not reported
NAICS Desc 3: Not reported
# Of Places: 1
Source Of Facility: Enf Action
Design Flow: Not reported
Threat To Water Quality: Not reported
Complexity: Not reported
Pretreatment: Not reported
Facility Waste Type: Not reported
Facility Waste Type 2: Not reported
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Facility Waste Type 4: Not reported
Program: Not reported
Program Category 1: Not reported
Program Category 2: NPDESWW
# Of Programs: Not reported
WDID: Not reported
Reg Measure Id: Not reported
Reg Measure Type: Not reported
Region: Not reported
Order #: Not reported
Npdes# CA#: Not reported
Major-Minor: Not reported
Npdes Type: Not reported
Reclamation: Not reported
Dredge Fill Fee: Not reported
301H: Not reported
Application Fee Amt Received: Not reported
Status: Not reported
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Expiration/Review Date: Not reported
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Individual/General: Not reported
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**Enforcement Action Type:** Clean-up and Abatement Order  
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**EPL Issuance Date:** Not reported  
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**Description:** CLEANUP & ABATE THE DISCHARGE & THREATENED DISCHARGE OF SOLVENTS,  
**Program:** NPDNONMUNIPRCS  
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### JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

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<th>Reactive Organic Gases Tons/Yr</th>
<th>Carbon Monoxide Emissions Tons/Yr</th>
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<th>SOX - Oxides of Sulphur Tons/Yr</th>
<th>Particulate Matter Tons/Yr</th>
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JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2000
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 4953
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 2
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2001
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 4953
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2002
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2003
County Code: 49
JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 2004
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0.601
Reactive Organic Gases Tons/Yr: 0.2759825
Carbon Monoxide Emissions Tons/Yr: 0.005
NOX - Oxides of Nitrogen Tons/Yr: 0.023
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0.004
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0.003512

Year: 2005
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 3.177
Reactive Organic Gases Tons/Yr: 2.3169019
Carbon Monoxide Emissions Tons/Yr: 0.011
NOX - Oxides of Nitrogen Tons/Yr: 0.053
SOX - Oxides of Sulphur Tons/Yr: 0.001
Particulate Matter Tons/Yr: 0.006
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0.005464

Year: 2006
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Year: .853
Reactive Organic Gases Tons/Year: .4412664
Carbon Monoxide Emissions Tons/Year: 0
NOX - Oxides of Nitrogen Tons/Year: .003
SOX - Oxides of Sulphur Tons/Year: 0
Particulate Matter Tons/Year: .002
Part. Matter 10 Micrometers & Smaller Tons/Year: .00156

Year: 2007
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Year: .647
Reactive Organic Gases Tons/Year: .3107663
Carbon Monoxide Emissions Tons/Year: .002
NOX - Oxides of Nitrogen Tons/Year: .012
SOX - Oxides of Sulphur Tons/Year: 0
Particulate Matter Tons/Year: .003
Part. Matter 10 Micrometers & Smaller Tons/Year: .002536

Year: 2008
County Code: 49
Air Basin: SF
Facility ID: 5223
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Year: 12.884
Reactive Organic Gases Tons/Year: 10.059312
Carbon Monoxide Emissions Tons/Year: 0
NOX - Oxides of Nitrogen Tons/Year: 0
SOX - Oxides of Sulphur Tons/Year: 0
Particulate Matter Tons/Year: .001
Part. Matter 10 Micrometers & Smaller Tons/Year: .0009

Year: 2008
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Year: .107
Reactive Organic Gases Tons/Year: .0697022
Carbon Monoxide Emissions Tons/Year: .008
NOX - Oxides of Nitrogen Tons/Year: .038
SOX - Oxides of Sulphur Tons/Year: 0
### JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

| Particulate Matter Tons/Yr: | .005 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | .004488 |
| Year: | 2009 |
| County Code: | 49 |
| Air Basin: | SF |
| Facility ID: | 5223 |
| Air District Name: | BA |
| SIC Code: | 3827 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 11.571 |
| Reactive Organic Gases Tons/Yr: | 8.7494873999999996 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0.001 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | 8.999999999999998E-4 |
| Year: | 2009 |
| County Code: | 49 |
| Air Basin: | SF |
| Facility ID: | 1535 |
| Air District Name: | BA |
| SIC Code: | 3827 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.47999999999999998 |
| Reactive Organic Gases Tons/Yr: | 0.2233106 |
| Carbon Monoxide Emissions Tons/Yr: | 9.1999999999999998E-2 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0.42199999999999999 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 3.2000000000000001E-2 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | 3.0839999999999999E-2 |
| Year: | 2010 |
| County Code: | 49 |
| Air Basin: | SF |
| Facility ID: | 5223 |
| Air District Name: | BA |
| SIC Code: | 3827 |
| Air District Name: | BAY AREA AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 12.071 |
| Reactive Organic Gases Tons/Yr: | 11.1281972000000001 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0.001 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | 0.001 |

JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.)

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- **Facility ID:** 49380001
- **Status:** Refer: RWQCB
- **Status Date:** 09/27/1993
- **Site Code:** Not reported
- **Site Type:** Historical
- **Site Type Detailed:** * Historical
- **Acres:** Not reported
- **NPL:** NO
- **Regulatory Agencies:** NONE SPECIFIED
- **Lead Agency:** NONE SPECIFIED
- **Program Manager:** Not reported
- **Supervisor:** Referred - Not Assigned
- **Division Branch:** Cleanup Berkeley
- **Assembly:** 10
- **Senate:** 02
- **Special Program:** * Rural County Survey Program
- **Restricted Use:** NO
- **Site Mgmt Req:** NONE SPECIFIED
- **Funding:** Not reported
- **Latitude:** 38.41555
- **Longitude:** -122.7561
- **APN:** NONE SPECIFIED
- **Past Use:** NONE SPECIFIED
- **Potential COC:** NONE SPECIFIED
- **Confirmed COC:** NONE SPECIFIED
- **Potential Description:** NONE SPECIFIED
- **Alias Name:** OPTI
- **Alias Type:** Alternate Name
- **Alias Name:** 49380001
- **Alias Type:** EPA Identification Number
- **Alias Name:** 110000902676
- **Alias Type:** EPA (FRS #)
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- **Alias Type:** EPA (FRS #)
- **Alias Name:** 49380001
- **Alias Type:** Envirostor ID Number

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- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Site Screening
- **Completed Date:** 03/01/1990
- **Comments:** SITE SCREENING DONE EPA COMPLETED PRELIMINARY ASSESSMENT & RECOMMEND SCREENING SITE INSPECTION (MEDIUM PRIORITY).
### JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

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| Status Date: | Not reported |
| Site Code: | Not reported |
| Site Type: | Tiered Permit |
| Site Type Detailed: | Tiered Permit |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | NONE SPECIFIED |
| Lead Agency: | NONE SPECIFIED |
| Program Manager: | Not reported |
| Supervisor: | Not reported |
| Division Branch: | Cleanup Berkeley |
| Assembly: | 10 |
| Senate: | 02 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Not reported |
| Latitude: | 38.41603 |
| Longitude: | -122.7501 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |

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| Completed Sub Area Name: | Not reported |
JDSU (FORMERLY OPTICAL COATING LABORATORIES, INC.) (Continued)

Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

26 SANTA ROSA CIRCUITS
NE 35 AND 48 WEST BARHAM AVENUE
1/2-1 SANTA ROSA, CA 95407
0.887 mi.
4682 ft.

ENVIROSTOR 1000395378
N/A

Relative: Higher
Actual: 146 ft.

ENVIROSTOR:
Facility ID: 49360001
Status: Refer: RWQCB
Status Date: 03/25/2008
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.5
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Karen Toth
Division Branch: Cleanup Berkeley
Assembly: 10
Senate: 02
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 38.42629
Longitude: -122.7220
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: OTHER INORGANIC SOLID WASTE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 49360001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/18/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
SANTA ROSA CIRCUITS (Continued)

Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/25/2008
Comments: Soil cleanup was conducted and approved by the the Santa Rosa Fire Department and the North Coast Water Board on March 23 and March 30, 2005 respectively. Soil was contaminated with motor oil and lead. Groundwater results for volatile organic compounds and selected metals were below the Maximum Contaminant Levels (MCLs).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 03/18/1987
Comments: FACILITY IDENTIFIED INFO ACQUIRED FROM DHS FILES. SITE SCREENING DONE MORE INFO NEEDED TO DETERMINE THE HAZARD POTENTIAL. CONTACT: EILEEN KORTAS FIRE DEPT., 955 SONOMA AVE., SANTA ROSA, CA. (707) 576-5311.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

--
--

27 AM/PM MINI MART 2004
ESE 440 HEARN AVENUE 2004
1/2-1 SANTA ROSA, CA 95407 2004
0.904 mi. 2004
4773 ft. 2004

Relative: HIST CORTESE:
Higher Region: CORTESE
Facility County Code: 49
Actual: Reg By: LTNKA
137 ft. Reg Id: 1TSR150

LUST:
Region: STATE
Global Id: T0609700647
Latitude: 38.414206947
Longitude: -122.717746665
Case Type: LUST Cleanup Site
Status: Open - Remediation
Status Date: 01/26/2005
Lead Agency: NORTH COAST RWQCB (REGION 1)
Case Worker: JAT
Local Agency: SANTA ROSA, CITY OF
RB Case Number: 1TSR150
LOC Case Number: Not reported
File Location: Regional Board
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: In April 1990, one 6,000-gallon and two 10,000-gallon underground storage tanks (USTs) were removed from the north side of the site.
Soil samples collected from the excavation pit, at depths ranging between 16 and 20 feet below ground surface (bgs), showed total petroleum hydrocarbons as gasoline (TPH-g) and benzene at maximum concentrations of 15 mg/kg and 2.3 mg/kg, respectively. Groundwater and soil remediation has been conducted at the site since 2005, using shallow groundwater extraction from an interceptor trench, deeper-zone extraction from extraction wells, and several multi-phase extraction events using a mobile extraction unit. Quarterly groundwater monitoring events were conducted at the site from 1999 until mid 2009. Semi-annual groundwater sampling and analysis at selected monitoring wells were implemented in mid 2009.

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0609700647
Contact Type: Regional Board Caseworker
Contact Name: JIM TISCHLER
Organization Name: NORTH COAST RWQCB (REGION 1)
Address: 5550 SKYLANE BOULEVARD, SUITE A
City: SANTA ROSA
Email: jtischler@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0609700647
Status: Open - Case Begin Date
Status Date: 04/13/1990

Global Id: T0609700647
Status: Open - Remediation
Status Date: 01/26/2005

Global Id: T0609700647
Status: Open - Site Assessment
Status Date: 05/04/1990

Global Id: T0609700647
Status: Open - Site Assessment
Status Date: 08/13/1993

Global Id: T0609700647
Status: Open - Site Assessment
Status Date: 09/13/1993

Global Id: T0609700647
Status: Open - Site Assessment
Status Date: 04/04/1995

Global Id: T0609700647
Status: Open - Site Assessment
Status Date: 05/09/2001

Global Id: T0609700647
Status: Open - Site Assessment
Status Date: 09/13/2001
AM/PM MINI MART (Continued)  S100236216

Global Id: T0609700647
Status: Open - Site Assessment
Status Date: 10/29/2001

Global Id: T0609700647
Status: Open - Site Assessment
Status Date: 08/22/2002

Regulatory Activities:
Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 05/08/2003
Action: File review

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 12/26/2003
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 03/09/2004
Action: * Historical Enforcement

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 03/29/2004
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 08/15/2013
Action: Staff Letter

Global Id: T0609700647
Action Type: RESPONSE
Date: 06/30/2002
Action: Soil and Water Investigation Workplan

Global Id: T0609700647
Action Type: RESPONSE
Date: 01/30/2003
Action: Soil and Water Investigation Report

Global Id: T0609700647
Action Type: RESPONSE
Date: 07/31/2013
Action: Remedial Progress Report - Regulator Responded

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 03/21/2008
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 04/05/2005
AM/PM MINI MART (Continued)  S100236216

Action: * Verbal Communication
Global Id: T0609700647
Action Type: RESPONSE
Date: 03/15/2004
Action: Other Workplan

Global Id: T0609700647
Action Type: RESPONSE
Date: 03/09/2004
Action: Unauthorized Release Form

Global Id: T0609700647
Action Type: Other
Date: 04/13/1990
Action: Leak Discovery

Global Id: T0609700647
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: RESPONSE
Date: 02/28/2011
Action: Correspondence

Global Id: T0609700647
Action Type: REMEDIATION
Date: 01/26/2005
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 12/27/2007
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 01/18/2008
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 07/02/2010
Action: File review

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 05/26/2011
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 07/20/2010
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AM/PM MINI MART (Continued)

Date: 01/31/2008
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: RESPONSE
Date: 07/04/2003
Action: Other Report / Document

Global Id: T0609700647
Action Type: RESPONSE
Date: 10/31/2013
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: RESPONSE
Date: 12/02/2013
Action: Correspondence

Global Id: T0609700647
Action Type: RESPONSE
Date: 11/15/2013
Action: Correspondence

Global Id: T0609700647
Action Type: RESPONSE
Date: 01/31/2014
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: RESPONSE
Date: 01/29/2014
Action: Correspondence

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 07/30/2009
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 11/21/2013
Action: Staff Letter

Global Id: T0609700647
Action Type: RESPONSE
Date: 09/04/2008
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0609700647
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Annually

Global Id: T0609700647
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Annually

Global Id: T0609700647
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Annually
AM/PM MINI MART (Continued)  S100236216

Global Id: T0609700647
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Annually

Global Id: T0609700647
Action Type: RESPONSE
Date: 04/07/2008
Action: Other Report / Document

Global Id: T0609700647
Action Type: RESPONSE
Date: 05/23/2014
Action: Correspondence

Global Id: T0609700647
Action Type: RESPONSE
Date: 04/07/2014
Action: Correspondence

Global Id: T0609700647
Action Type: RESPONSE
Date: 10/31/2014
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: RESPONSE
Date: 07/31/2014
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: RESPONSE
Date: 05/07/2001
Action: Soil and Water Investigation Report

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 06/02/2003
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 02/07/2014
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 04/16/2014
Action: Staff Letter

Global Id: T0609700647
Action Type: RESPONSE
Date: 06/30/2009
Action: Interim Remedial Action Report

Global Id: T0609700647
Action Type: RESPONSE
On March 17, 2008, a tanker truck operated by Atlantic Richfield Company (ARCO) spilled approximately 30 gallons of gasoline when a moving car contacted the fill hose as fuel was being transferred to an underground storage tank. The spilled gasoline flowed over an area approximately 25 feet wide and 50 feet long, adjacent to at least three groundwater monitoring wells. The gasoline spill was contained on the site and mopped up with adsorbent materials on the night of the spill. On March 18, 2008, Regional Water Board staff inspected the area of the spill. Staff observed that the ground surface in the area of the spill. Staff observed that the ground surface in the
AM/PM MINI MART (Continued)

area spill contained damaged and cracked asphalt. On March 19, 2008, Regional Water Board staff conducted an additional inspection and observed that gasoline-saturated materials remained on the ground surface and that gasoline odors were present near the damaged asphalt surface. On April 3, 2008, one soil boring was advanced to a depth of 40 inches below ground surface in the area of the most extensively damaged asphalt paving. Soil samples were collected at 1 foot and 3 feet below ground surface for analysis of petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, MTBE and ethanol. The laboratory results showed that all constituents of concern were below laboratory detection levels.

Click here to access the California GeoTracker records for this facility:

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582

28 SANTA ROSA PLATING WORKS ENVIROSTOR S105754203 NE 80 BARHAM AVE N/A 1/2-1 SANTA ROSA, CA 95407 4826 ft.
0.914 mi.
Relative: Higher
Actual: 147 ft.

ENVIROSTOR:
Facility ID: 49340003
Status: No Further Action
Status Date: 01/07/2000
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Denise Tsuji
Division Branch: Cleanup Berkeley
Assembly: 10
Senate: 02
Special Program: * Rural County Survey Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 38.42628
Longitude: -122.7194
APN: 037-151-028
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 037-151-028
Alias Type: APN
SANTA ROSA PLATING WORKS (Continued) S105754203

Alias Name: 49340003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/13/1988
Comments: SITE SCREENING DONE SIC CODE - FORMERLY LOCATED AT 1465 SANTA ROSA AVENUE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 04/20/1988
Comments: FACILITY IDENTIFIED IND 1957

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

C29 RESIDENCE Notify 65 S100453829
ENE 1267 CORBY AVE N/A
1/2-1 SANTA ROSA, CA 95407
0.948 mi. Site 1 of 3 in cluster C
5003 ft. NOTIFY 65:

Relative: Higher
Actual: 149 ft.

Date Reported: 19920729
Staff Initials: crj
Board File Number: 0TZ920002
Facility Type: misc
Discharge Date: Not reported
Incident Description: 95407-6112Water sample results from domestic well indicate 22 ppb dichlorodifluoromethane present.

C30 RESIDENCE Notify 65 S100453866
ENE 1267 CORBY AVE N/A
1/2-1 SANTA ROSA, CA 95407
0.948 mi. Site 2 of 3 in cluster C
5003 ft. NOTIFY 65:

Relative: Higher
Actual: 149 ft.

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 95407-6112
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**Incident Description:**
Water sample results from domestic well indicate 22 ppb dichlorodifluoromethane present.

**Notify 65:**
19920729

**Staff Initials:**
crj

**Board File Number:**
0TZ920002

**Facility Type:**
misc

**Discharge Date:**
Not reported

**Incident Description:**
95407-6112Water sample results from domestic well indicate 22 ppb dichlorodifluoromethane present.
## ORPHAN SUMMARY

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<th>Site Address</th>
<th>Zip</th>
<th>Database(s)</th>
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<tr>
<td>SANTA ROSA</td>
<td>S105050963</td>
<td>SANTA ROSA CITY / HIGHWAY 12 INTER</td>
<td>HIGHWAY 12 @ STONY POINT ROAD</td>
<td>95401</td>
<td>SLIC</td>
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<tr>
<td>SANTA ROSA</td>
<td>S115779967</td>
<td>MEADOW VIEW EXPANSION, HEARN AVE.</td>
<td>1550 &amp; 1590 HEARN AVENUE</td>
<td>95407</td>
<td>SCH, ENVIROSTOR</td>
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<td>SANTA ROSA</td>
<td>S104857583</td>
<td>WEST COLLEGE AVENUE / CLOVER DRIVE</td>
<td>COLLEGE AVENUE, WEST</td>
<td>95401</td>
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<td>S102437873</td>
<td>SOUTHERN PACIFIC TRANS CO.</td>
<td>WEST THIRD ST. 20</td>
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<td>LUST</td>
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</table>
To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

### STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

NPL: National Priority List
- **National Priorities List (Superfund).** The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA’s Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/26/2015  
Source: EPA  
Telephone: N/A

Date of Government Version: 03/26/2015  
Source: EPA  
Telephone: N/A

Date of Government Version: 06/22/2015  
Last EDR Contact: 07/09/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Quarterly

**NPL Site Boundaries**

Sources:
- EPA’s Environmental Photographic Interpretation Center (EPIC)  
  Telephone: 202-564-7333
- EPA Region 1  
  Telephone 617-918-1143
- EPA Region 3  
  Telephone 215-814-5418
- EPA Region 4  
  Telephone 404-562-8033
- EPA Region 5  
  Telephone 312-886-6686
- EPA Region 10  
  Telephone 206-553-8665

**Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/26/2015  
Source: EPA  
Telephone: N/A

Date of Government Version: 06/22/2015  
Last EDR Contact: 07/09/2015  
Next Scheduled EDR Contact: 10/19/2015  
Data Release Frequency: Quarterly

**NPL LIENS:** Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991  
Source: EPA  
Telephone: 202-564-4267

Date of Government Version: 02/02/1994  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned
Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/26/2015  Source: EPA
Date Data Arrived at EDR: 04/08/2015  Telephone: N/A
Date Made Active in Reports: 06/22/2015  Last EDR Contact: 07/09/2015
Number of Days to Update: 75  Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013  Source: EPA
Date Data Arrived at EDR: 11/11/2013  Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014  Last EDR Contact: 05/29/2015
Number of Days to Update: 94  Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015  Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015  Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015  Last EDR Contact: 07/10/2015
Number of Days to Update: 64  Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA’s knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013  Source: EPA
Date Data Arrived at EDR: 11/11/2013  Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014  Last EDR Contact: 05/29/2015
Number of Days to Update: 94  Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.
Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

RCRA-SQG: RCRA - Small Quantity Generators
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators
RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.
Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

- Date of Government Version: 03/16/2015
- Date Data Arrived at EDR: 03/17/2015
- Date Made Active in Reports: 06/02/2015
- Number of Days to Update: 77
- Source: Environmental Protection Agency
- Telephone: 703-603-0695
- Last EDR Contact: 06/01/2015
- Next Scheduled EDR Contact: 09/14/2015
- Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

- Date of Government Version: 03/16/2015
- Date Data Arrived at EDR: 03/17/2015
- Date Made Active in Reports: 06/02/2015
- Number of Days to Update: 77
- Source: Environmental Protection Agency
- Telephone: 703-603-0695
- Last EDR Contact: 06/01/2015
- Next Scheduled EDR Contact: 09/14/2015
- Data Release Frequency: Varies

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

- Date of Government Version: 05/28/2015
- Date Data Arrived at EDR: 05/29/2015
- Date Made Active in Reports: 06/11/2015
- Number of Days to Update: 13
- Source: Department of the Navy
- Telephone: 843-820-7326
- Last EDR Contact: 05/18/2015
- Next Scheduled EDR Contact: 08/31/2015
- Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

- Date of Government Version: 03/30/2015
- Date Data Arrived at EDR: 03/31/2015
- Date Made Active in Reports: 06/02/2015
- Number of Days to Update: 63
- Source: National Response Center, United States Coast Guard
- Telephone: 202-267-2180
- Last EDR Contact: 06/26/2015
- Next Scheduled EDR Contact: 10/12/2015
- Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites
Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

- Date of Government Version: 05/04/2015
- Date Data Arrived at EDR: 05/05/2015
- Date Made Active in Reports: 05/14/2015
- Number of Days to Update: 9
- Source: Department of Toxic Substances Control
- Telephone: 916-323-3400
- Last EDR Contact: 05/05/2015
- Next Scheduled EDR Contact: 08/17/2015
- Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS
ENVIROSTOR: EnviroStor Database
The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 05/04/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 05/14/2015
Number of Days to Update: 9
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/05/2015
Number of Days to Update: 16
Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned
LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations: Imperial, Riverside, San Diego, Santa Barbara counties.
Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.
Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board’s LUST database.
Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41
Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.
Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker’s Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.
Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/17/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Quarterly
LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.
Date of Government Version: 05/19/2003  Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003  Telephone: 805-542-4786
Date Made Active in Reports: 06/02/2003  Last EDR Contact: 07/18/2011
Number of Days to Update: 14  Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.
Date of Government Version: 09/07/2004  Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004  Telephone: 213-576-6710
Date Made Active in Reports: 10/12/2004  Last EDR Contact: 09/06/2011
Number of Days to Update: 35  Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.
Date of Government Version: 03/13/2015  Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/18/2015  Telephone: 866-480-1028
Date Made Active in Reports: 03/24/2015  Last EDR Contact: 06/17/2011
Number of Days to Update: 6  Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.
Date of Government Version: 04/03/2003  Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003  Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003  Last EDR Contact: 08/01/2011
Number of Days to Update: 18  Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.
Date of Government Version: 09/30/2004  Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004  Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004  Last EDR Contact: 09/19/2011
Number of Days to Update: 30  Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.
Date of Government Version: 05/18/2006  Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006  Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006  Last EDR Contact: 07/18/2011
Number of Days to Update: 28  Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

**SLIC REG 4:**
Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47
Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

**SLIC REG 5:**
Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16
Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

**SLIC REG 6V:**
Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22
Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

**SLIC REG 6L:**
Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

**SLIC REG 7:**
Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

**SLIC REG 8:**
Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually
SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska.

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.
INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
Date of Government Version: 02/03/2015  
Source: EPA Region 10  
Telephone: 206-553-2857
Date Data Arrived at EDR: 02/12/2015  
Last EDR Contact: 04/27/2015
Date Made Active in Reports: 03/13/2015  
Next Scheduled EDR Contact: 08/10/2015
Number of Days to Update: 29  
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada.
Date of Government Version: 01/08/2015  
Source: Environmental Protection Agency  
Telephone: 415-972-3372
Date Data Arrived at EDR: 01/08/2015  
Last EDR Contact: 01/08/2015
Date Made Active in Reports: 02/09/2015  
Next Scheduled EDR Contact: 05/11/2015
Number of Days to Update: 32  
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies.
Date of Government Version: 06/15/2015  
Source: SWRCB  
Telephone: 916-341-5851
Date Data Arrived at EDR: 06/17/2015  
Last EDR Contact: 06/17/2015
Date Made Active in Reports: 07/06/2015  
Next Scheduled EDR Contact: 09/28/2015
Number of Days to Update: 19  
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.
Date of Government Version: 08/01/2009  
Source: California Environmental Protection Agency  
Telephone: 916-327-5092
Date Data Arrived at EDR: 09/10/2009  
Last EDR Contact: 07/13/2015
Date Made Active in Reports: 10/01/2009  
Next Scheduled EDR Contact: 10/12/2015
Number of Days to Update: 21  
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
Date of Government Version: 05/06/2015  
Source: EPA Region 10  
Telephone: 206-553-2857
Date Data Arrived at EDR: 05/19/2015  
Last EDR Contact: 04/27/2015
Date Made Active in Reports: 06/22/2015  
Next Scheduled EDR Contact: 08/10/2015
Number of Days to Update: 34  
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).
Date of Government Version: 12/14/2014  
Source: EPA Region 9  
Telephone: 415-972-3368
Date Data Arrived at EDR: 02/13/2015  
Last EDR Contact: 01/28/2015
Date Made Active in Reports: 03/13/2015  
Next Scheduled EDR Contact: 05/11/2015
Number of Days to Update: 28  
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).
INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014  Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014  Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015  Last EDR Contact: 04/27/2015
Number of Days to Update: 65  Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 03/17/2015  Source: EPA Region 6
Date Data Arrived at EDR: 05/01/2015  Telephone: 214-665-7591
Date Made Active in Reports: 06/22/2015  Last EDR Contact: 01/26/2015
Number of Days to Update: 52  Next Scheduled EDR Contact: 05/11/2015
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/30/2015  Source: EPA Region 5
Date Data Arrived at EDR: 05/26/2015  Telephone: 312-886-6136
Date Made Active in Reports: 06/22/2015  Last EDR Contact: 04/27/2015
Number of Days to Update: 27  Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014  Source: EPA Region 4
Date Data Arrived at EDR: 03/03/2015  Telephone: 404-562-9424
Date Made Active in Reports: 03/13/2015  Last EDR Contact: 04/27/2015
Number of Days to Update: 10  Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/03/2015  Source: EPA, Region 1
Date Data Arrived at EDR: 04/30/2015  Telephone: 617-918-1313
Date Made Active in Reports: 06/22/2015  Last EDR Contact: 04/28/2015
Number of Days to Update: 53  Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.
State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC’s costs.

Date of Government Version: 05/04/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 05/14/2015
Number of Days to Update: 9
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/05/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/23/2015
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 70
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/24/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites
ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/23/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/26/2015
Number of Days to Update: 8
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/17/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/26/2015
Date Data Arrived at EDR: 05/28/2015
Date Made Active in Reports: 06/05/2015
Number of Days to Update: 8
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: No Update Planned
Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015  
Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 05/29/2015  
Next Scheduled EDR Contact: 09/14/2015  
Data Release Frequency: Quarterly

HIST CAL-SITES: CalSites Database
The CalSites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the CalSites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005  
Source: Department of Toxic Substance Control  
Telephone: 916-323-3400  
Last EDR Contact: 02/23/2009  
Next Scheduled EDR Contact: 05/25/2009  
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 05/04/2015  
Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 05/05/2015  
Next Scheduled EDR Contact: 08/17/2015  
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995  
Source: State Water Resources Control Board  
Telephone: 916-227-4364  
Last EDR Contact: 01/26/2009  
Next Scheduled EDR Contact: 04/27/2009  
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2014  
Source: Department of Toxic Substances Control  
Telephone: 916-255-6504  
Last EDR Contact: 07/13/2015  
Next Scheduled EDR Contact: 10/28/2015  
Data Release Frequency: Varies
US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this
web site as a public service. It contains addresses of some locations where law enforcement agencies reported
they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites.
In most cases, the source of the entries is not the Department, and the Department has not verified the entry
and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example,
contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Source: Drug Enforcement Administration
Date Data Arrived at EDR: 03/10/2015
Telephone: 202-307-1000
Date Made Active in Reports: 03/25/2015
Last EDR Contact: 05/29/2015
Number of Days to Update: 15
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage
tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995
Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995
Last EDR Contact: 12/28/1998
Number of Days to Update: 24
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Source: Department of Public Health
Date Data Arrived at EDR: 09/23/2009
Telephone: 707-463-4466
Date Made Active in Reports: 10/01/2009
Last EDR Contact: 06/01/2015
Number of Days to Update: 8
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county
source for current data.

Date of Government Version: 10/15/1990
Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991
Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991
Last EDR Contact: 07/26/2001
Number of Days to Update: 18
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and
maintained by a company contacted by the SWRCB in the early 1990’s. The listing is no longer updated or maintained.
The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005
Telephone: N/A
Date Made Active in Reports: 08/11/2005
Last EDR Contact: 06/03/2005
Number of Days to Update: 35
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent
Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination.
CERCLIS provides information as to the identity of these sites and properties.
Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-564-6023

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/11/2015
Date Data Arrived at EDR: 03/13/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 11
Source: Department of Toxic Substances Control
Telephone: 916-323-3400

DEED: Deed Restriction Listing
Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder’s office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 8
Source: DTSC and SWRCB
Telephone: 916-323-3400

Records of Emergency Release Reports
HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72
Source: U.S. Department of Transportation
Telephone: 202-366-4555

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 04/14/2015
Date Data Arrived at EDR: 04/29/2015
Date Made Active in Reports: 05/21/2015
Number of Days to Update: 22
Source: Office of Emergency Services
Telephone: 916-845-8400

LDS: Land Disposal Sites Listing
The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 03/13/2015
Date Data Arrived at EDR: 03/18/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 6
Source: State Water Quality Control Board
Telephone: 866-480-1028

Data Release Frequency: Quarterly
MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/13/2015  
Source: State Water Resources Control Board  
Telephone: 866-480-1028

Date Data Arrived at EDR: 03/19/2015  
Last EDR Contact: 06/17/2015

Date Made Active in Reports: 03/24/2015  
Next Scheduled EDR Contact: 09/28/2015

Number of Days to Update: 6  
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012  
Source: FirstSearch

Date Data Arrived at EDR: 01/03/2013  
Last EDR Contact: 01/03/2013

Date Made Active in Reports: 02/22/2013  
Next Scheduled EDR Contact: N/A

Number of Days to Update: 50  
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA’s comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/10/2015  
Source: Environmental Protection Agency

Date Data Arrived at EDR: 03/31/2015  
Telephone: (415) 495-8895

Date Made Active in Reports: 06/11/2015  
Last EDR Contact: 06/26/2015

Number of Days to Update: 72  
Next Scheduled EDR Contact: 10/12/2015

Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Source: Department of Transporation, Office of Pipeline Safety

Date Data Arrived at EDR: 08/07/2012  
Telephone: 202-366-4595

Date Made Active in Reports: 09/18/2012  
Last EDR Contact: 05/05/2015

Number of Days to Update: 42  
Next Scheduled EDR Contact: 08/17/2015

Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Source: USGS

Date Data Arrived at EDR: 11/10/2006  
Telephone: 888-275-8747

Date Made Active in Reports: 01/11/2007  
Last EDR Contact: 04/14/2015

Number of Days to Update: 62  
Next Scheduled EDR Contact: 07/27/2015

Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.
CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 08/23/2014
Number of Days to Update: 8
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/08/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Varies

ROD: Record Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46
Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/07/2013
Date Made Active in Reports: 03/16/2014
Number of Days to Update: 146
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 05/26/2014
Next Scheduled EDR Contact: 09/21/2014
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/24/2014
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 74
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 505-845-0011
Last EDR Contact: 09/21/2014
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110
Source: EPA
Telephone: 202-556-0250
Last EDR Contact: 06/08/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.
FTTS: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

FTTS INSPI: FIFRA/TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

HIST FTTS INSPI: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.
ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31
Source: Environmental Protection Agency
Telephone: 202-566-0500
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Annually

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB’s who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/31/2015
Date Data Arrived at EDR: 04/09/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 63
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/04/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/07/2015
Date Data Arrived at EDR: 04/09/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and ‘pointers’ to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26
Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/10/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly
RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

- Date of Government Version: 04/17/1995
- Source: EPA
- Telephone: 202-564-4104
- Last EDR Contact: 06/02/2008
- Next Scheduled EDR Contact: 09/01/2008
- Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g. the fire department) should an accident occur.

- Date of Government Version: 02/01/2015
- Source: Environmental Protection Agency
- Telephone: 202-564-8600
- Last EDR Contact: 04/27/2015
- Next Scheduled EDR Contact: 08/10/2015
- Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

- Date of Government Version: 12/31/2011
- Source: EPA/NTIS
- Telephone: 800-424-9346
- Last EDR Contact: 05/29/2015
- Next Scheduled EDR Contact: 09/07/2015
- Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

- Date of Government Version: 01/01/1989
- Source: Department of Health Services
- Telephone: 916-255-2118
- Last EDR Contact: 05/31/1994
- Next Scheduled EDR Contact: N/A
- Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

- Date of Government Version: 11/19/2014
- Source: Department of Conservation
- Telephone: 916-445-2408
- Last EDR Contact: 06/19/2015
- Next Scheduled EDR Contact: 09/28/2015
- Data Release Frequency: Varies
NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/20/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

COTRUSE: "Coturse" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 04/10/2015
Number of Days to Update: 10

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

HIST COTRUSE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CAL-SITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/17/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholstery cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/18/2015
Date Data Arrived at EDR: 02/20/2015
Date Made Active in Reports: 03/12/2015
Number of Days to Update: 20

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/05/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Annually

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies
ENF: Enforcement Action Listing

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 12
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/27/2015
Next Scheduled EDR Contact: 08/10/2015
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/19/2014
Number of Days to Update: 35
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/17/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 03/25/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 34
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/25/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2015
Next Scheduled EDR Contact: 07/27/2015
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/07/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Varies
LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust.

- Date of Government Version: 04/05/2001
- Date Data Arrived at EDR: 10/27/2010
- Date Made Active in Reports: 12/02/2010
- Number of Days to Update: 36
- Source: American Journal of Public Health

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action (“cleanups”) tracked in EnviroStor.

- Date of Government Version: 05/26/2015
- Date Data Arrived at EDR: 05/28/2015
- Date Made Active in Reports: 06/05/2015
- Number of Days to Update: 8
- Source: Department of Toxic Substances Control

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

- Date of Government Version: 04/13/2015
- Date Data Arrived at EDR: 04/15/2015
- Date Made Active in Reports: 04/23/2015
- Number of Days to Update: 8
- Source: Department of Toxic Substances Control

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

- Date of Government Version: 12/31/2005
- Date Data Arrived at EDR: 08/07/2009
- Date Made Active in Reports: 10/22/2009
- Number of Days to Update: 76
- Source: Department of Energy

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

- Date of Government Version: 01/16/2015
- Date Data Arrived at EDR: 03/10/2015
- Date Made Active in Reports: 03/18/2015
- Number of Days to Update: 8
- Source: Department of Public Health

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

- Date of Government Version: 02/01/2011
- Date Data Arrived at EDR: 10/19/2011
- Date Made Active in Reports: 01/10/2012
- Number of Days to Update: 83
- Source: Environmental Protection Agency
### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

- **Date of Government Version:** 07/01/2014
- **Source:** Environmental Protection Agency
- **Telephone:** N/A
- **Last EDR Contact:** 06/12/2015
- **Next Scheduled EDR Contact:** 09/21/2015
- **Data Release Frequency:** Varies

### FEDLAND: Federal and Indian Lands


- **Date of Government Version:** 12/31/2005
- **Source:** U.S. Geological Survey
- **Telephone:** 888-275-8747
- **Last EDR Contact:** 04/14/2015
- **Next Scheduled EDR Contact:** 07/27/2015
- **Data Release Frequency:** N/A

### Financial Assurance 1: Financial Assurance Information Listing

- **Date of Government Version:** 04/30/2015
- **Source:** Department of Toxic Substances Control
- **Telephone:** 916-255-3628
- **Last EDR Contact:** 04/27/2015
- **Next Scheduled EDR Contact:** 08/31/2015
- **Data Release Frequency:** Varies

### WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

- **Date of Government Version:** 06/19/2007
- **Source:** State Water Resources Control Board
- **Telephone:** 916-341-5227
- **Last EDR Contact:** 05/20/2015
- **Next Scheduled EDR Contact:** 09/07/2015
- **Data Release Frequency:** Quarterly

### Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

- **Date of Government Version:** 05/18/2015
- **Source:** California Integrated Waste Management Board
- **Telephone:** 916-341-6066
- **Last EDR Contact:** 05/18/2015
- **Next Scheduled EDR Contact:** 08/31/2015
- **Data Release Frequency:** Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

- **Date of Government Version:** 03/09/2015
- **Source:** Environmental Protection Agency
- **Telephone:** 202-566-1917
- **Last EDR Contact:** 05/14/2015
- **Next Scheduled EDR Contact:** 08/31/2015
- **Data Release Frequency:** Quarterly
US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.
Date of Government Version: 10/16/2014  Source: EPA
Date Data Arrived at EDR: 10/31/2014  Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014  Last EDR Contact: 06/22/2015
Number of Days to Update: 17  Next Scheduled EDR Contact: 10/22/2015
Data Release Frequency: Annually

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.
Date of Government Version: 10/16/2014  Source: EPA
Date Data Arrived at EDR: 10/31/2014  Telephone: 202-564-2496
Date Made Active in Reports: 11/17/2014  Last EDR Contact: 06/22/2015
Number of Days to Update: 17  Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Annually

2020 COR ACTION: 2020 Corrective Action Program List
The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.
Date of Government Version: 04/22/2013  Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015  Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015  Last EDR Contact: 05/14/2015
Number of Days to Update: 6  Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.
Date of Government Version: 03/16/2015  Source: Department of Conservation
Date Data Arrived at EDR: 03/18/2015  Telephone: 916-323-3836
Date Made Active in Reports: 03/24/2015  Last EDR Contact: 06/17/2015
Number of Days to Update: 6  Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Quarterly

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties
Date of Government Version: 10/25/2013  Source: EPA
Date Data Arrived at EDR: 10/17/2014  Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014  Last EDR Contact: 05/14/2015
Number of Days to Update: 3  Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST
EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.
EDR HIGH RISK HISTORICAL RECORDS

**EDR MGP: EDR Proprietary Manufactured Gas Plants**

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR’s researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

**EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations**

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

**EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners**

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR’s review was limited to those categories of sources that might, in EDR’s opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR’s HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

## EDR RECOVERED GOVERNMENT ARCHIVES

**Exclusive Recovered Govt. Archives**
RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196
Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182
Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 08/10/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Semi-Annually

Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 01/21/2015
Date Data Arrived at EDR: 01/28/2015
Date Made Active in Reports: 02/26/2015
Number of Days to Update: 29
Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupra Facility List

Date of Government Version: 06/05/2015
Date Data Arrived at EDR: 06/09/2015
Date Made Active in Reports: 07/10/2015
Number of Days to Update: 31
Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/05/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Varies

BUTTE COUNTY:
CUPA Facility Listing
Cupa facility list.
Date of Government Version: 11/20/2014
Date Data Arrived at EDR: 11/24/2014
Date Made Active in Reports: 01/07/2015
Number of Days to Update: 44
Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: No Update Planned

CALVERAS COUNTY:
CUPA Facility Listing
Cupa Facility Listing
Date of Government Version: 04/17/2015
Date Data Arrived at EDR: 04/21/2015
Date Made Active in Reports: 05/07/2015
Number of Days to Update: 16
Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

COLUSA COUNTY:
CUPA Facility List
Cupa facility list.
Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 24
Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

CONTRA COSTA COUNTY:
Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.
Date of Government Version: 05/26/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13
Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/04/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:
CUPA Facility List
Cupa Facility list
Date of Government Version: 05/19/2015
Date Data Arrived at EDR: 05/22/2015
Date Made Active in Reports: 06/05/2015
Number of Days to Update: 14
Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

EL DORADO COUNTY:
FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA’s are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

IMPERIAL COUNTY:

CUPA Facility List
Cupas facility list.

INYO COUNTY:

CUPA Facility List
Cupa facility list.

KERN COUNTY:
Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.
Date of Government Version: 07/22/2014  Source: Kern County Environment Health Services Department
Date Data Arrived at EDR: 11/12/2014  Telephone: 661-862-8700
Date Made Active in Reports: 12/19/2014  Last EDR Contact: 06/12/2015
Number of Days to Update: 37  Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

KINGS COUNTY:
CUPA Facility List
A listing of sites included in the county’s Certified Unified Program Agency database. California’s Secretary
for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program
as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration,
permits, inspections, and enforcement activities.

Date of Government Version: 05/26/2015  Source: Kings County Department of Public Health
Date Data Arrived at EDR: 05/28/2015  Telephone: 559-584-1411
Date Made Active in Reports: 06/15/2015  Last EDR Contact: 05/21/2015
Number of Days to Update: 18  Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

LAKE COUNTY:
CUPA Facility List
Cupa facility list

Date of Government Version: 05/05/2015  Source: Lake County Environmental Health
Date Data Arrived at EDR: 05/07/2015  Telephone: 707-263-1164
Date Made Active in Reports: 05/20/2015  Last EDR Contact: 04/16/2015
Number of Days to Update: 13  Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Varies

LOS ANGELES COUNTY:
San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009  Source: EPA Region 9
Date Data Arrived at EDR: 03/31/2009  Telephone: 415-972-3178
Date Made Active in Reports: 10/23/2009  Last EDR Contact: 06/17/2015
Number of Days to Update: 206  Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014  Source: Department of Public Works
Date Data Arrived at EDR: 01/30/2015  Telephone: 626-458-3517
Date Made Active in Reports: 03/04/2015  Last EDR Contact: 07/10/2015
Number of Days to Update: 33  Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.
Date of Government Version: 04/20/2015  Source: La County Department of Public Works  Telephone: 818-458-5185  Last EDR Contact: 04/20/2015  Next Scheduled EDR Contact: 08/03/2015  Data Release Frequency: Varies

City of Los Angeles Landfills  Landfills owned and maintained by the City of Los Angeles.  Date of Government Version: 03/05/2009  Source: Engineering & Construction Division  Telephone: 213-473-7869  Last EDR Contact: 04/15/2015  Next Scheduled EDR Contact: 08/03/2015  Data Release Frequency: Varies

Site Mitigation List  Industrial sites that have had some sort of spill or complaint.  Date of Government Version: 01/15/2015  Source: Community Health Services  Telephone: 323-890-7806  Last EDR Contact: 04/16/2015  Next Scheduled EDR Contact: 08/03/2015  Data Release Frequency: Varies

City of El Segundo Underground Storage Tank  Underground storage tank sites located in El Segundo city.  Date of Government Version: 03/30/2015  Source: City of El Segundo Fire Department  Telephone: 310-524-2236  Last EDR Contact: 03/06/2015  Next Scheduled EDR Contact: 08/03/2015  Data Release Frequency: Annually

City of Long Beach Underground Storage Tank  Underground storage tank sites located in the city of Long Beach.  Date of Government Version: 03/03/2015  Source: City of Long Beach Fire Department  Telephone: 562-570-2563  Last EDR Contact: 04/27/2015  Next Scheduled EDR Contact: 08/10/2015  Data Release Frequency: Semi-Annually

City of Torrance Underground Storage Tank  Underground storage tank sites located in the city of Torrance.  Date of Government Version: 06/03/2015  Source: City of Torrance Fire Department  Telephone: 310-618-2973  Last EDR Contact: 06/04/2015  Next Scheduled EDR Contact: 10/28/2015  Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List  A listing of sites included in the county’s Certified Unified Program Agency database. California’s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.
MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 10/08/2014
Date Data Arrived at EDR: 10/22/2014
Date Made Active in Reports: 12/15/2014
Number of Days to Update: 54
Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 07/06/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

Date of Government Version: 05/22/2015
Date Data Arrived at EDR: 05/26/2015
Date Made Active in Reports: 06/05/2015
Number of Days to Update: 10
Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/22/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

Date of Government Version: 06/01/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 07/06/2015
Number of Days to Update: 33
Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 06/01/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

Date of Government Version: 03/19/2015
Date Data Arrived at EDR: 03/20/2015
Date Made Active in Reports: 03/31/2015
Number of Days to Update: 11
Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.
Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

PLACER COUNTY:
Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.
Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/12/2015
Date Made Active in Reports: 03/18/2015
Number of Days to Update: 6
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:
Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).
Date of Government Version: 04/28/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.
Date of Government Version: 04/28/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 05/13/2015
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:
Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.
Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 04/16/2015
Number of Days to Update: 8
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.
Date of Government Version: 02/02/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 04/16/2015
Number of Days to Update: 8
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:
Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.
**SAN DIEGO COUNTY:**

**Hazardous Materials Management Division Database**

The database includes:
- HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

**Solid Waste Facilities**

San Diego County Solid Waste Facilities.

**Environmental Case Listing**

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

**SAN FRANCISCO COUNTY:**

**Local Oversite Facilities**

A listing of leaking underground storage tank sites located in San Francisco county.

**Underground Storage Tank Information**

Underground storage tank sites located in San Francisco county.

**SAN JOAQUIN COUNTY:**
San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 07/06/2015
Number of Days to Update: 10

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/17/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/22/2015
Date Data Arrived at EDR: 05/26/2015
Date Made Active in Reports: 06/10/2015
Number of Days to Update: 15

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/13/2015
Date Data Arrived at EDR: 04/15/2015
Date Made Active in Reports: 04/23/2015
Number of Days to Update: 8

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/15/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/17/2015
Date Made Active in Reports: 03/24/2015
Number of Days to Update: 7

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2015
Next Scheduled EDR Contact: 06/29/2015
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/22/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list
### HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Department of Environmental Health</th>
<th>Telephone: 408-918-1973</th>
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</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>Date Made Active in Reports: 07/10/2015</td>
<td>Last EDR Contact: 06/05/2015</td>
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<tr>
<td>Number of Days to Update:</td>
<td>Next Scheduled EDR Contact: 09/07/2015</td>
<td>Data Release Frequency: Varies</td>
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</table>

### LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Santa Clara Valley Water District</th>
<th>Telephone: 408-265-2600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>Date Made Active in Reports: 04/21/2005</td>
<td>Last EDR Contact: 03/23/2009</td>
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### Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: City of San Jose Fire Department</th>
<th>Telephone: 408-535-7694</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>Date Made Active in Reports: 06/08/2015</td>
<td>Last EDR Contact: 05/07/2015</td>
</tr>
<tr>
<td>Number of Days to Update: 27</td>
<td>Next Scheduled EDR Contact: 08/24/2015</td>
<td>Data Release Frequency: Annually</td>
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### SANTA CRUZ COUNTY:
CUPA Facility List
CUPA facility listing.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Santa Cruz County Environmental Health</th>
<th>Telephone: 831-464-2761</th>
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<td>Date Data Arrived at EDR</td>
<td>Date Made Active in Reports: 06/08/2015</td>
<td>Last EDR Contact: 05/22/2015</td>
</tr>
<tr>
<td>Number of Days to Update: 13</td>
<td>Next Scheduled EDR Contact: 09/07/2015</td>
<td>Data Release Frequency: Varies</td>
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</table>

### SHASTA COUNTY:
CUPA Facility List
Cupa Facility List.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Shasta County Department of Resource Management</th>
<th>Telephone: 530-225-5789</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>Date Made Active in Reports: 07/10/2015</td>
<td>Last EDR Contact: 05/26/2015</td>
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<td>Number of Days to Update: 24</td>
<td>Next Scheduled EDR Contact: 09/07/2015</td>
<td>Data Release Frequency: Varies</td>
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### SOLANO COUNTY:
### Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

<table>
<thead>
<tr>
<th>Source</th>
<th>Telephone</th>
<th>Last EDR Contact</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solano County Department of Environmental Management</td>
<td>707-784-6770</td>
<td>06/10/2015</td>
<td>09/28/2015</td>
<td>Quarterly</td>
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<table>
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<tr>
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<th>Date Data Arrived at EDR</th>
<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
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<tr>
<td>03/13/2015</td>
<td>03/19/2015</td>
<td>03/24/2015</td>
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### SONOMA COUNTY:

**Cupa Facility List**

<table>
<thead>
<tr>
<th>Source</th>
<th>Telephone</th>
<th>Last EDR Contact</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>County of Sonoma Fire &amp; Emergency Services Department</td>
<td>707-565-1174</td>
<td>06/22/2015</td>
<td>10/12/2015</td>
<td>Varies</td>
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<table>
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<th>Date of Government Version</th>
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<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
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</thead>
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<td>03/31/2015</td>
<td>04/02/2015</td>
<td>04/10/2015</td>
<td>8</td>
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</table>

### SUTTER COUNTY:

**Underground Storage Tanks**

Underground storage tank sites located in Sutter county.

<table>
<thead>
<tr>
<th>Source</th>
<th>Telephone</th>
<th>Last EDR Contact</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
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</thead>
<tbody>
<tr>
<td>Sutter County Department of Agriculture</td>
<td>530-822-7500</td>
<td>06/05/2015</td>
<td>09/21/2015</td>
<td>Semi-Annually</td>
</tr>
</tbody>
</table>

<table>
<thead>
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<th>Date of Government Version</th>
<th>Date Data Arrived at EDR</th>
<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
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</thead>
<tbody>
<tr>
<td>06/05/2015</td>
<td>06/09/2015</td>
<td>07/06/2015</td>
<td>27</td>
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</tr>
</tbody>
</table>

### TUOLUMNE COUNTY:

**CUPA Facility List**

<table>
<thead>
<tr>
<th>Source</th>
<th>Telephone</th>
<th>Last EDR Contact</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
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<tbody>
<tr>
<td>Division of Environmental Health</td>
<td>209-533-5633</td>
<td>04/27/2015</td>
<td>08/10/2015</td>
<td>Varies</td>
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<th>Date of Government Version</th>
<th>Date Data Arrived at EDR</th>
<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
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</thead>
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<td>05/05/2015</td>
<td>05/07/2015</td>
<td>05/13/2015</td>
<td>6</td>
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</table>

### VENTURA COUNTY:
Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

**Date of Government Version:** 04/27/2015  
**Source:** Ventura County Environmental Health Division  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 05/22/2015  
**Date Made Active in Reports:** 06/05/2015  
**Number of Days to Update:** 14  
**Next Scheduled EDR Contact:** 08/08/2015  
**Data Release Frequency:** Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

**Date of Government Version:** 12/01/2011  
**Source:** Environmental Health Division  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 12/01/2011  
**Date Made Active in Reports:** 01/19/2012  
**Number of Days to Update:** 49  
**Next Scheduled EDR Contact:** 10/19/2015  
**Data Release Frequency:** Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

**Date of Government Version:** 05/29/2008  
**Source:** Environmental Health Division  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 06/24/2008  
**Date Made Active in Reports:** 07/31/2008  
**Number of Days to Update:** 37  
**Next Scheduled EDR Contact:** 09/31/2015  
**Data Release Frequency:** Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

**Date of Government Version:** 04/27/2015  
**Source:** Ventura County Resource Management Agency  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 04/29/2015  
**Date Made Active in Reports:** 05/13/2015  
**Number of Days to Update:** 14  
**Next Scheduled EDR Contact:** 08/10/2015  
**Data Release Frequency:** Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

**Date of Government Version:** 05/27/2015  
**Source:** Environmental Health Division  
**Telephone:** 805-654-2813  
**Date Data Arrived at EDR:** 06/17/2015  
**Date Made Active in Reports:** 07/06/2015  
**Number of Days to Update:** 19  
**Next Scheduled EDR Contact:** 09/28/2015  
**Data Release Frequency:** Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

**Date of Government Version:** 03/26/2015  
**Source:** Yolo County Department of Health  
**Telephone:** 530-666-8646  
**Date Data Arrived at EDR:** 04/01/2015  
**Date Made Active in Reports:** 04/13/2015  
**Number of Days to Update:** 12  
**Next Scheduled EDR Contact:** 10/05/2015  
**Data Release Frequency:** Annually

YUBA COUNTY:
CUPA Facility List
CUPA facility listing for Yuba County.
Date of Government Version: 05/18/2015
Date Data Arrived at EDR: 05/19/2015
Date Made Active in Reports: 06/05/2015
Number of Days to Update: 17
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

OTHER DATABASE(S)
Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.
Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.
Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 04/29/2015
Date Made Active in Reports: 05/29/2015
Number of Days to Update: 30
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.
Date of Government Version: 05/01/2015
Date Data Arrived at EDR: 05/06/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 14
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.
Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35
Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/16/2015
Next Scheduled EDR Contact: 08/03/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest Information
Hazardous waste manifest information.
Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29
Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Annually
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Telephone: 281-546-1505
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: 800-823-6277
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.
NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5’ Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION
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TARGET PROPERTY ADDRESS

BURBANK HOUSING DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CA 95407

TARGET PROPERTY COORDINATES

Latitude (North): 38.4184 - 38° 25’ 6.24”
Longitude (West): 122.7326 - 122° 43’ 57.36”
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 523343.6
UTM Y (Meters): 4252066.0
Elevation: 125 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38122-D6 SANTA ROSA, CA
Version Date: 1999

West Map: 38122-D7 SEBASTOPOL, CA
Version Date: 1980

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.
GROUNDWATER FLOW DIRECTION INFORMATION
Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY
General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.
HYDROLOGIC INFORMATION
Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<table>
<thead>
<tr>
<th>Target Property County</th>
<th>FEMA Flood</th>
<th>Electronic Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>SONOMA, CA</td>
<td>YES - refer to the Overview Map and Detail Map</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flood Plain Panel at Target Property</th>
<th>06097C - FEMA DFRM Flood data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Panels in search area:</td>
<td>Not Reported</td>
</tr>
</tbody>
</table>

NATIONAL WETLAND INVENTORY

<table>
<thead>
<tr>
<th>NWI Quad at Target Property</th>
<th>Data Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>SANTA ROSA</td>
<td>YES - refer to the Overview Map and Detail Map</td>
</tr>
</tbody>
</table>

HYDROGEOLOGIC INFORMATION
Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**Site-Specific Hydrogeological Data**:  
Search Radius: 1.25 miles  
Location Relative to TP: 1/2 - 1 Mile NNW  
Site Name: Acme Auto Wreckers  
Site EPA ID Number: CAD983644998  
Inferred Depth to Water: less than 15 feet  
Hydraulic Connection: The site is underlain by deposits consisting of fine sands, silts, clays, coarse sands, and gravels to a depth of 200 feet. The shallow water table and lower aquifers are interconnected through numerous irrigation wells screened in both aquifers.  
Sole Source Aquifer: No information about a sole source aquifer is available  
Data Quality: Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.
## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>LOCATION</th>
<th>GENERAL DIRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>B5</td>
<td>1/2 - 1 Mile ESE</td>
<td>Not Reported</td>
</tr>
<tr>
<td>B6</td>
<td>1/2 - 1 Mile ESE</td>
<td>Varies</td>
</tr>
<tr>
<td>7</td>
<td>1/2 - 1 Mile North</td>
<td>SW</td>
</tr>
<tr>
<td>8</td>
<td>1/2 - 1 Mile NNW</td>
<td>SW</td>
</tr>
<tr>
<td>10</td>
<td>1/2 - 1 Mile ESE</td>
<td>Not Reported</td>
</tr>
<tr>
<td>12</td>
<td>1/2 - 1 Mile NNW</td>
<td>WSW</td>
</tr>
<tr>
<td>13</td>
<td>1/2 - 1 Mile NE</td>
<td>Varies</td>
</tr>
<tr>
<td>E16</td>
<td>1/2 - 1 Mile ESE</td>
<td>S</td>
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<tr>
<td>E17</td>
<td>1/2 - 1 Mile ESE</td>
<td>S</td>
</tr>
<tr>
<td>F18</td>
<td>1/2 - 1 Mile NNE</td>
<td>NW</td>
</tr>
<tr>
<td>F19</td>
<td>1/2 - 1 Mile NNE</td>
<td>NW</td>
</tr>
</tbody>
</table>

For additional site information, refer to Physical Setting Source Map Findings.
GROUNDWATER FLOW VELOCITY INFORMATION
Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY
Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

<table>
<thead>
<tr>
<th>Era:</th>
<th>Cenozoic</th>
</tr>
</thead>
<tbody>
<tr>
<td>System:</td>
<td>Quaternary</td>
</tr>
<tr>
<td>Series:</td>
<td>Quaternary</td>
</tr>
<tr>
<td>Code:</td>
<td>Q</td>
</tr>
</tbody>
</table>

Category: Stratified Sequence

(decoded above as Era, System & Series)

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture’s (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

Soil Component Name: CLEAR LAKE  
Soil Surface Texture: clay  
Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.  
Soil Drainage Class: Poorly drained  
Hydric Status: All hydric  
Corrosion Potential - Uncoated Steel: High  
Depth to Bedrock Min: > 0 inches  
Depth to Watertable Min: > 0 inches

### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Max: 1.4 Min: 0.42 Max: 7.3 Min: 5.6</td>
</tr>
<tr>
<td>2</td>
<td>38 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Max: 1.4 Min: 0.42 Max: 8.4 Min: 7.4</td>
</tr>
</tbody>
</table>

---

**Soil Map ID: 2**

Soil Component Name: WRIGHT  
Soil Surface Texture: loam  
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.  
Soil Drainage Class: Somewhat poorly drained
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches
Depth to Watertable Min: > 0 inches

<table>
<thead>
<tr>
<th>Soil Layer Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Boundary</strong></td>
</tr>
<tr>
<td>Layer</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
</tbody>
</table>

**Soil Map ID: 3**

**Soil Component Name:** YOLO

**Soil Surface Texture:** clay loam

**Hydrologic Group:** Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

**Soil Drainage Class:** Well drained
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Upper</th>
<th>Lower</th>
<th>Soil Texture Class</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>7 inches</td>
<td>clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay</td>
<td>Max: 14 Min: 4</td>
<td>Max: 7.3 Min: 6.1</td>
</tr>
<tr>
<td>2</td>
<td>7 inches</td>
<td>59 inches</td>
<td>loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay</td>
<td>Max: 14 Min: 4</td>
<td>Max: 8.4 Min: 6.1</td>
</tr>
</tbody>
</table>

**Soil Map ID: 4**

**Soil Component Name:** CLEAR LAKE

**Soil Surface Texture:** clay

**Hydrologic Group:** Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

**Soil Drainage Class:** Poorly drained

**Hydric Status:** All hydric

**Corrosion Potential - Uncoated Steel:** High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches
### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Upper</th>
<th>Lower</th>
<th>Soil Texture Class</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity (μm/s)</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>12 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Max: 1.4 Min: 0.42</td>
<td>Max: 7.3 Min: 5.6</td>
</tr>
<tr>
<td>2</td>
<td>12 inches</td>
<td>59 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Max: 1.4 Min: 0.42</td>
<td>Max: 8.4 Min: 7.4</td>
</tr>
</tbody>
</table>

---

### Soil Map ID: 5

- **Soil Component Name:** ZAMORA
- **Soil Surface Texture:** silty clay loam
- **Hydrologic Group:** Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
- **Soil Drainage Class:** Well drained
- **Hydric Status:** Not hydric
- **Corrosion Potential - Uncoated Steel:** Moderate
- **Depth to Bedrock Min:** > 0 inches
- **Depth to Watertable Min:** > 0 inches
### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upper</td>
<td>Lower</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>5 inches</td>
<td>29 inches</td>
<td>clay loam</td>
<td>Silt-Clay</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid</td>
<td>Max: 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Materials (more than 35 pct. passing No.</td>
<td>limit less than 50%), Lean Clay</td>
<td>Min: 1.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>200), Clayey</td>
<td></td>
<td>Max: 7.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Soils.</td>
<td></td>
<td>Min: 6.1</td>
</tr>
<tr>
<td>3</td>
<td>29 inches</td>
<td>40 inches</td>
<td>clay loam</td>
<td>Silt-Clay</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid</td>
<td>Max: 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Materials (more than 35 pct. passing No.</td>
<td>limit less than 50%), Lean Clay</td>
<td>Min: 1.4</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>200), Clayey</td>
<td></td>
<td>Max: 7.3</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>Soils.</td>
<td></td>
<td>Min: 6.6</td>
</tr>
<tr>
<td>4</td>
<td>40 inches</td>
<td>55 inches</td>
<td>sandy clay loam</td>
<td>Silt-Clay</td>
<td>COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.</td>
<td>Max: 14</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Materials (more than 35 pct. passing No.</td>
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<td>Min: 4</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>200), Clayey</td>
<td></td>
<td>Max: 7.3</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>Soils.</td>
<td></td>
<td>Min: 6.6</td>
</tr>
<tr>
<td>5</td>
<td>55 inches</td>
<td>59 inches</td>
<td>gravelly clay</td>
<td>Silt-Clay</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid</td>
<td>Max: 14</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Materials (more than 35 pct. passing No.</td>
<td>limit less than 50%), Lean Clay</td>
<td>Min: 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>200), Clayey</td>
<td></td>
<td>Max: 7.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Soils.</td>
<td></td>
<td>Min: 6.6</td>
</tr>
</tbody>
</table>

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<table>
<thead>
<tr>
<th>DATABASE</th>
<th>SEARCH DISTANCE (miles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal USGS</td>
<td>1.000</td>
</tr>
<tr>
<td>Federal FRDS PWS</td>
<td>Nearest PWS within 1 mile</td>
</tr>
<tr>
<td>State Database</td>
<td>1.000</td>
</tr>
</tbody>
</table>

### FEDERAL USGS WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
</table>
### FEDERAL USGS WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td>USGS400000188233</td>
<td>1/4 - 1/2 Mile West</td>
</tr>
</tbody>
</table>

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

No PWS System Found

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7417</td>
<td>1/8 - 1/4 Mile ESE</td>
</tr>
<tr>
<td>A3</td>
<td>CADW50000031649</td>
<td>1/4 - 1/2 Mile West</td>
</tr>
<tr>
<td>4</td>
<td>7416</td>
<td>1/2 - 1 Mile North</td>
</tr>
<tr>
<td>C9</td>
<td>7413</td>
<td>1/2 - 1 Mile NNE</td>
</tr>
<tr>
<td>C11</td>
<td>7414</td>
<td>1/2 - 1 Mile NNE</td>
</tr>
<tr>
<td>D14</td>
<td>7412</td>
<td>1/2 - 1 Mile ENE</td>
</tr>
<tr>
<td>D15</td>
<td>CADW50000031657</td>
<td>1/2 - 1 Mile ENE</td>
</tr>
</tbody>
</table>
Ground-water levels, Number of Measurements: 1

<table>
<thead>
<tr>
<th>Date</th>
<th>Surface</th>
<th>Sealevel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1973-06-27</td>
<td>18.00</td>
<td></td>
</tr>
</tbody>
</table>
### Map ID
**Direction**: North
**Distance**: 1/2 - 1 Mile
**Elevation**: Higher

<table>
<thead>
<tr>
<th>Database</th>
<th>EDR ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA WELLS</td>
<td>CADW50000031649</td>
</tr>
</tbody>
</table>

#### Water System Information:
- **Prime Station Code**: 07N08W27F02 M
- **User ID**: RXR
- **County**: Sonoma
- **Station Type**: WELL/AMBNT/MUN/INTAKE
- **Well Status**: Active Raw
- **Precision**: 100 Feet (one Second)
- **Source**: 100 Feet (one Second)
- **Organization That Operates System**: SUNSET APARTMENTS
- **Pop Served**: 20
- **Area Served**: Not Reported

#### Site Details:
- **Address**: 544 COLLEGE AVE, SANTA ROSA, CA 95404

### Map ID
**Direction**: West
**Distance**: 1/4 - 1/2 Mile
**Elevation**: Lower

<table>
<thead>
<tr>
<th>Database</th>
<th>EDR ID Number</th>
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<tbody>
<tr>
<td>CA WELLS</td>
<td>7416</td>
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</tbody>
</table>

#### Site Details:
- **Site ID**: North Central Region Office
- **Site Code**: 07N08W27F02 M
- **Casgem sta**: 07N08W27F02 M
- **Casgem s 1**: Residential
- **Basin desc**: SANTA ROSA Plain
- **Site**: North Central Region Office

### Map ID
**Direction**: ESE
**Distance**: 1/2 - 1 Mile
**Elevation**: Higher

<table>
<thead>
<tr>
<th>Database</th>
<th>EDR ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQUIFLOW</td>
<td>54562</td>
</tr>
</tbody>
</table>

#### Site Details:
- **Site ID**: Not Reported
- **Groundwater Flow**: Not Reported
- **Shallow Water Depth**: Not Reported
- **Deep Water Depth**: Not Reported
- **Average Water Depth**: 13
- **Date**: 12/08/1995

### Map ID
**Direction**: ESE
**Distance**: 1/2 - 1 Mile
**Elevation**: Higher

<table>
<thead>
<tr>
<th>Database</th>
<th>EDR ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQUIFLOW</td>
<td>54560</td>
</tr>
</tbody>
</table>

#### Site Details:
- **Site ID**: Not Reported
- **Groundwater Flow**: Varies
- **Shallow Water Depth**: 8
- **Deep Water Depth**: 12
- **Average Water Depth**: Not Reported
- **Date**: 05/11/1990

### Map ID
**Direction**: North
**Distance**: 1/2 - 1 Mile
**Elevation**: Higher

<table>
<thead>
<tr>
<th>Database</th>
<th>EDR ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQUIFLOW</td>
<td>71013</td>
</tr>
</tbody>
</table>

#### Site Details:
- **Site ID**: Not Reported
- **Groundwater Flow**: SW
- **Shallow Water Depth**: Not Reported
- **Deep Water Depth**: Not Reported
- **Average Water Depth**: Not Reported
- **Date**: 08/01/1995
### Water System Information:

**Prime Station Code:** 07N/08W-27A07 M  
**FRDS Number:** 4900914001  
**District Number:** 03  
**Water Type:** Well/Groundwater  
**Source Lat/Long:** 382541.0 1224337.0  
**Source Name:** WELL 02  
**System Number:** 4900914  
**System Name:** Cottage Apartments  
**Organization That Operates System:** 16 Brookside Sebastopol, CA 94947  
**Pop Served:** 80  
**Area Served:** Not Reported  
**Date:** 01/28/1994

**Water System Information:**

**Prime Station Code:** 07N/08W-27A08 M  
**FRDS Number:** 4900889001  
**District Number:** 03  
**Water Type:** Well/Groundwater  
**Source Lat/Long:** 382543.0 1224335.0  
**Source Name:** WELL 01  
**System Number:** 4900889  
**System Name:** Avalon Apartments  
**Organization That Operates System:** 60 Palm Way Santa Rosa, CA 94941  
**Pop Served:** 100  
**Area Served:** Not Reported  
**Date:** 09/02/1998
### CA WELLS 7412

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**Water System Information:**

- **Prime Station Code:** 07N08W-26L02 M
- **FRDS Number:** 4900858001
- **District Number:** 03
- **Water Type:** Well/Groundwater
- **Source Lat/Long:** 382517.0 1224259.0
- **System Name:** CORBY AVENUE APARTMENTS
- **Organization That Operates System:** 800 E. MENDOCINO AVE. SANTA ROSA, CA 95401
- **User ID:** RXR
- **County:** Sonoma
- **Station Type:** WELL/AMBNT/MUN/INTAKE
- **Well Status:** Active Untreated
- **Precision:** 10 Feet (1/10 Second)
- **Pop Served:** 30
- **Connections:** 12
- **Area Served:** Not Reported
- **Sample Collected:** 16-JUN-08
- **Chemical:** ARSENIC
- **Findings:** 3.1 UG/L

---

### AQUIFLOW 70293

| Site ID: | Not Reported |
| Groundwater Flow: | WSW |
| Shallow Water Depth: | 12 |
| Deep Water Depth: | 18 |
| Average Water Depth: | Not Reported |
| Date: | 08/1992 |

### AQUIFLOW 54553

| Site ID: | Not Reported |
| Groundwater Flow: | Varies |
| Shallow Water Depth: | 6.80 |
| Deep Water Depth: | 13.73 |
| Average Water Depth: | Not Reported |
| Date: | 08/16/1994 |

---

### CA WELLS CADW50000031657

| Site code: | 384219N1227177W001 |
| Casgem sta: | 07N08W26L002M |
| Local well: | Not Reported |
| Casgem s 1: | Residential |
| County id: | 49 |
| Basin cd: | 1-55.01 |
| Basin desc: | Santa Rosa Plain |
| Org unit n: | North Central Region Office |
| Site id: | CADW500000031657 |

---

**Map ID**

**Direction**

**Distance**

**Elevation**

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**Database**

**EDR ID Number**

### GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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### Federal EPA Radon Zone for SONOMA County

- Zone 1 indoor average level > 4 pCi/L.
- Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- Zone 3 indoor average level < 2 pCi/L.

### Federal Area Radon Information for Zip Code: 95407

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Number of sites tested: 4

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<th>Area</th>
<th>Average Activity</th>
<th>% &lt;4 pCi/L</th>
<th>% 4-20 pCi/L</th>
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<td>0.475 pCi/L</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
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<tr>
<td>Living Area - 2nd Floor</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
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<td>Basement</td>
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TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW® Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture’s (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.
LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.
OTHER

Airport Landing Facilities: Private and public use landing facilities
   Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
   Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR’s Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California’s Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Certified Sanborn® Map Report

7/14/15

Site Name: Burbank Housing Development
1980-2010 Burbank Avenue
Santa Rosa, CA 95407

Client Name: Harris & Lee Env. Sciences
120 Ross Valley Drive
San Rafael, CA 94901-0000

EDR Inquiry # 4354129.3
Contact: Cathy Neumann

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Harris & Lee Env. Sciences were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edmet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Site Name: Burbank Housing Development
Address: 1980-2030 Burbank Avenue
City, State, Zip: Santa Rosa, CA 95407
Cross Street: 
P.O. #: 1980-2010 Burbank Avenue
Project: Burbank Housing Development
Certification #: 1E67-4CB1-98CA

UNMAPPED PROPERTY
This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

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Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.
EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1930 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

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TARGET PROPERTY INFORMATION

ADDRESS
1990-2030 Burbank Avenue
Santa Rosa, CA 95407

FINDINGS DETAIL
Target Property research detail.
## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

### BIWAMA DR

**1935 BIWAMA DR**

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### BIWANA DR

**1931 BIWANA DR**

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BURBANK

2017 BURBANK

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2155 BURBANK

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BURBANK AVE

1780 BURBANK AVE

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<tr>
<td>1958</td>
<td>Adkins Chas F</td>
<td>R. L. Polk Co., Publishers</td>
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</table>
### FINDINGS

#### TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

<table>
<thead>
<tr>
<th>Address Researched</th>
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#### ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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## FINDINGS

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Exhibit G – Regulatory Records Documentation
No documents available.
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<table>
<thead>
<tr>
<th>SECTION</th>
<th>PAGE</th>
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<tbody>
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<td>Executive Summary</td>
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</tr>
<tr>
<td>Overview Map</td>
<td>2</td>
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<td>Detail Map</td>
<td>3</td>
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<tr>
<td>Map Findings Summary</td>
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<td>Map Findings</td>
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<tr>
<td>Orphan Summary</td>
<td>69</td>
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<tr>
<td>Government Records Searched/Data Currency Tracking</td>
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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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TARGET PROPERTY INFORMATION

ADDRESS

1980 BURBANK AVENUE
SANTA ROSA, CA 95407

COORDINATES

Latitude (North): 38.418100 - 38° 25’ 5.2”
Longitude (West): 122.734100 - 122° 44’ 2.8”
Universal Transverse Mercator: Zone 10
UTM X (Meters): 523212.8
UTM Y (Meters): 4252032.5
Elevation: 123 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38122-D6 SANTA ROSA, CA
Most Recent Revision: 1999

West Map: 38122-D7 SEBASTOPOL, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR’s search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL.......................... National Priority List
Proposed NPL............... Proposed National Priority List Sites
NPL LIENS.................... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL.................. National Priority List Deletions
EXECUTIVE SUMMARY

Federal CERCLIS list
FEDERAL FACILITY Federal Facility Site Information listing

Federal CERCLIS NFRAP site List
CERC-NFRAP CERCLIS No Further Remedial Action Planned

Federal RCRA CORRAC TS facilities list
CORRAC TS Corrective Action Report

Federal RCRA non-CORRAC TS TSD facilities list
RCRA-TSDF RCRA - Treatment, Storage and Disposal

Federal RCRA generators list
RCRA-LQG RCRA - Large Quantity Generators
RCRA-SQG RCRA - Small Quantity Generators
RCRA-CESQG RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries
US ENG CONTROLS Engineering Controls Sites List
US INST CONTROL Sites with Institutional Controls

Federal ERNS list
ERNS Emergency Response Notification System

State- and tribal - equivalent NPL
RESPONSE State Response Sites

State and tribal landfill and/or solid waste disposal site lists
SWF/LF Solid Waste Information System

State and tribal leaking storage tank lists
LUST Geotracker’s Leaking Underground Fuel Tank Report
INDIAN LUST Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists
UST Active UST Facilities
AST Aboveground Petroleum Storage Tank Facilities
INDIAN UST Underground Storage Tanks on Indian Land
FEMA UST Underground Storage Tank Listing

State and tribal voluntary cleanup sites
VCP Voluntary Cleanup Program Properties
EXECUTIVE SUMMARY

INDIAN VCP................. Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists
US BROWNFIELDS.......... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites
DEBRIS REGION 9.......... Torres Martinez Reservation Illegal Dump Site Locations
ODI........................ Open Dump Inventory
WMUDS/SWAT............... Waste Management Unit Database
SWRCY..................... Recycler Database
HAULERS.................. Registered Waste Tire Haulers Listing
INDIAN ODI................. Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites
US CDL..................... Clandestine Drug Labs
HIST Cal-Sites............. Historical CalSites Database
Toxic Pits.................. Toxic Pits Cleanup Act Sites
CDL........................ Clandestine Drug Labs
US HIST CDL.............. National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks
CA FID UST.............. Facility Inventory Database
HIST UST............... Hazardous Substance Storage Container Database
SWEEPS UST............. SWEEPS UST Listing

Local Land Records
LIENS 2..................... CERCLA Lien Information
LUCIS...................... Land Use Control Information System
LIENS..................... Environmental Liens Listing
DEED....................... Deed Restriction Listing

Records of Emergency Release Reports
HMIRS...................... Hazardous Materials Information Reporting System
CHMIRS................... California Hazardous Material Incident Report System
LDS......................... Land Disposal Sites Listing
MCS....................... Military Cleanup Sites Listing

Other Ascertainable Records
RCRA-NonGen............. RCRA - Non Generators
DOT OPS........................ Incident and Accident Data
DOD........................ Department of Defense Sites
FUDS....................... Formerly Used Defense Sites
CONSENT.................... Superfund (CERCLA) Consent Decrees
ROD........................ Records Of Decision
UMTRA...................... Uranium Mill Tailings Sites
MINES. .......................... Mines Master Index File
TRIS .......................... Toxic Chemical Release Inventory System
TSCA .......................... Toxic Substances Control Act
FTTS .......................... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ......................... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS .......................... Section 7 Tracking Systems
ICIS .......................... Integrated Compliance Information System
PADS .......................... PCB Activity Database System
MLTS .......................... Material Licensing Tracking System
RADINFO ......................... Radiation Information Database
FINDS .......................... Facility Index System/Facility Registry System
RAATS .......................... RCRA Administrative Action Tracking System
WDS .......................... Waste Discharge System
NPDES .......................... NPDES Permits Listing
Cortese ......................... "Cortese" Hazardous Waste & Substances Sites List
HIST CORTESE .................. Hazardous Waste & Substance Site List
DRCLEANERS ................... Cleaner Facilities
WIP .......................... Well Investigation Program Case List
HAZNET ......................... Facility and Manifest Data
EMI .......................... Emissions Inventory Data
INDIAN RESERV  ............... Indian Reservations
SCRD DRYCLEANERS ........... State Coalition for Remediation of Drycleaners Listing
HWP .......................... EnviroStor Permitted Facilities Listing
HWT .......................... Registered Hazardous Waste Transporter Database
COAL ASH EPA .................. Coal Combustion Residues Surface Impoundments List
FINANCIAL ASSURANCE ......... Financial Assurance Information Listing
PCB TRANSFORMER ............ PCB Transformer Registration Database
PROC ......................... Certified Processors Database
MWMP .......................... Medical Waste Management Program Listing
COAL ASH DOE ................. Steam-Electric Plan Operation Data

EDR PROPRIETARY RECORDS

EDR Proprietary Records
Manufactured Gas Plants ..... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.
## STANDARD ENVIRONMENTAL RECORDS

### Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 02/25/2011 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>WEST AVENUE MERCURY</td>
<td>1363 WEST AVENUE</td>
<td>NE 1/4 - 1/2 (0.486 mi.)</td>
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<td>19</td>
</tr>
</tbody>
</table>

### State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 06/15/2011 has revealed that there are 14 ENVIROSTOR sites within approximately 1 mile of the target property.

<table>
<thead>
<tr>
<th>Equal/Higher Elevation</th>
<th>Address</th>
<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW ROSELAND AREA ELEMENTARY S</td>
<td>1683 BURBANK AVENUE</td>
<td>N 1/8 - 1/4 (0.179 mi.)</td>
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<td>8</td>
</tr>
<tr>
<td>FOUCHE BROS</td>
<td>2290 DUTTON AVENUE</td>
<td>ESE 1/2 - 1 (0.578 mi.)</td>
<td>8</td>
<td>20</td>
</tr>
<tr>
<td>WESCOTTS AUTO &amp; TRUCK PARTS IN</td>
<td>1569 SEBASTOPOL RD</td>
<td>NNW 1/2 - 1 (0.689 mi.)</td>
<td>13</td>
<td>23</td>
</tr>
<tr>
<td>VACANT (FORMALLY AALMETCO)</td>
<td>1733 SEBASTOPOL RD</td>
<td>NNW 1/2 - 1 (0.692 mi.)</td>
<td>14</td>
<td>26</td>
</tr>
<tr>
<td>MCMINN AVENUE</td>
<td>841 MCMINN AVENUE</td>
<td>N 1/2 - 1 (0.694 mi.)</td>
<td>15</td>
<td>27</td>
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<tr>
<td>ACME AUTO WRECKERS, INC.</td>
<td>1885 SEBASTOPOL</td>
<td>NNW 1/2 - 1 (0.703 mi.)</td>
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<td>31</td>
</tr>
<tr>
<td>S.W. BROWN</td>
<td>1175 SEBASTOPOL ROAD</td>
<td>N 1/2 - 1 (0.754 mi.)</td>
<td>18</td>
<td>33</td>
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<tr>
<td>COAST AUTO WRECKING</td>
<td>949 SEBASTOPOL RD</td>
<td>NNE 1/2 - 1 (0.795 mi.)</td>
<td>22</td>
<td>58</td>
</tr>
</tbody>
</table>
EXECUTIVE SUMMARY

State and tribal leaking storage tank lists
SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 06/20/2011 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites
SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category, depending on the level of threat to public health and safety or the environment they pose.

A review of the SCH list, as provided by EDR, and dated 06/15/2011 has revealed that there is 1 SCH site within approximately 0.25 miles of the target property.
**Other Ascertainable Records**

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

<table>
<thead>
<tr>
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<th>Direction / Distance</th>
<th>Map ID</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCMINN AVENUE</td>
<td>ROSELAND AREA</td>
<td>N 1/2 - 1 (0.661 mi.)</td>
<td>12</td>
<td>22</td>
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</tbody>
</table>

Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 10 Notify 65 sites within approximately 1 mile of the target property.

<table>
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<th>Direction / Distance</th>
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</thead>
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<tr>
<td>ANDY BONDI</td>
<td>1834 ROSE AVENUE</td>
<td>NNW 1/2 - 1 (0.580 mi.)</td>
<td>B9</td>
<td>21</td>
</tr>
<tr>
<td>ANDY BONDI</td>
<td>1834 ROSE AVENUE</td>
<td>NNW 1/2 - 1 (0.580 mi.)</td>
<td>B10</td>
<td>22</td>
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<tr>
<td>WILSON BAUGH ENTERPRISES</td>
<td>805 SEBASTOPAL</td>
<td>N 1/2 - 1 (0.703 mi.)</td>
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<td>33</td>
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<tr>
<td>GREG'S AUTOMOTIVE</td>
<td>DUTTON</td>
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<td>SEBASTOPAL B.P.</td>
<td>760 SEBASTOPAL</td>
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<td>EXCHANGE BANK DATA CENTER</td>
<td>330 SEBASTOPAL</td>
<td>NNE 1/2 - 1 (0.814 mi.)</td>
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<td>AM/PM MINI MART</td>
<td>440 HEARN AVENUE</td>
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<td>OPTICAL COATING LABORATORY INC</td>
<td>STORMDRAIN @ NORTHPOINT</td>
<td>WSW 1/4 - 1/2 (0.436 mi.)</td>
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<td>ANGIE KENDALL</td>
<td>2611 GIFFEN AVENUE</td>
<td>W 1/2 - 1 (0.605 mi.)</td>
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<tr>
<td><strong>OPTICAL COATING LABORATORY, IN</strong></td>
<td><strong>2789 NORTHPOINT PKWY</strong></td>
<td><strong>W 1/2 - 1 (0.767 mi.)</strong></td>
<td><strong>C19</strong></td>
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EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 13 records.

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<td>HIST CORTESE, LUST</td>
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<td>TERRACINA SPRIGLAKE FAMILY APARTME</td>
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<td>EUROCAL AUTO BODY</td>
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<td>MISSION ARBORS</td>
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<td>LUST</td>
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<td>FAST &amp; EASY MART</td>
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<td>AHL PROPERTY</td>
<td>LUST</td>
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<td>CROSSROADS U-HAUL</td>
<td>HAZNET</td>
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<td>CALTRANS DIST 4</td>
<td>RCRA-SQG, FINDS</td>
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<tr>
<td>SANTA ROSA CITY / HIGHWAY 12 INTER</td>
<td>SLIC</td>
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<tr>
<td>SANTA ROSA CITY / HIGHWAY 12 INTER</td>
<td>SLIC</td>
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<td>ROSELAND CREEK @ BURBANK AVENUE</td>
<td>SLIC</td>
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<tr>
<td>SANTA ROSA COMMUNITY DEVELOPMENT S</td>
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# MAP FINDINGS SUMMARY

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<td><strong>STANDARD ENVIRONMENTAL RECORDS</strong></td>
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### EDR PROPRIETARY RECORDS

#### EDR Proprietary Records

Manufactured Gas Plants

1.000 0 0 0 0 NR 0

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database
### A1
**DUTTON & ASSOCIATES**

1850 BURBANK AVENUE  
SANTA ROSA, CA 95407

< 1/8  
0.064 mi.  
336 ft.

Site 1 of 2 in cluster A

**Relative:**  
**Equal:**  
**Actual:**  
123 ft.

**Facility Status:** Completed - Case Closed  
**Status Date:** 1994-02-16 00:00:00  
**Global Id:** T06099793265  
**Lead Agency:** NORTH COAST RWQCB (REGION 1)  
**Lead Agency Case Number:** Not reported  
**Latitude:** 38.419277  
**Longitude:** -122.733898  
**Case Type:** Cleanup Program Site  
**Case Worker:** ZZZ  
**Local Agency:** SANTA ROSA, CITY OF  
**RB Case Number:** 1NSR232  
**File Location:** Regional Board  
**Potential Media Affected:** Soil  
**Potential Contaminants of Concern:** Diesel  
**Site History:** Not reported

Click here to access the California GeTracker records for this facility:

**SLIC:**  
**Region:** 1  
**Facility ID:** 1NSR232  
**Staff Initials:** Facility Closed

---

### A2
**DUTTON & ASSOCIATES**

1800 BURBANK AVENUE  
SANTA ROSA, CA 95407

< 1/8  
0.087 mi.  
461 ft.

Site 2 of 2 in cluster A

**Relative:**  
**Equal:**  
**Actual:**  
123 ft.

**Facility Status:** Completed - Case Closed  
**Status Date:** 1994-02-16 00:00:00  
**Global Id:** T06099793267  
**Lead Agency:** NORTH COAST RWQCB (REGION 1)  
**Lead Agency Case Number:** Not reported  
**Latitude:** 38.41931  
**Longitude:** -122.732892  
**Case Type:** Cleanup Program Site  
**Case Worker:** ZZZ  
**Local Agency:** SANTA ROSA, CITY OF  
**RB Case Number:** 1NSR233  
**File Location:** Regional Board  
**Potential Media Affected:** Soil  
**Potential Contaminants of Concern:** Diesel  
**Site History:** Not reported

Click here to access the California GeTracker records for this facility:

**SLIC:**  
**Region:** 1
<table>
<thead>
<tr>
<th>Facility ID:</th>
<th>1NSR233</th>
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<tr>
<td>Staff Initials:</td>
<td>Facility Closed</td>
</tr>
</tbody>
</table>

### 3

**NEW ROSELAND AREA ELEMENTARY SCHOOL**

**North**
1683 BURBANK AVENUE
SANTA ROSA, CA 95407

| Distance | Site | Elevation | Site Type | Site Type Detail | Site Mgmt. Req. | Acres | National Priorities List | Cleanup Oversight Agencies | Lead Agency | Lead Agency Description | Project Manager | Supervisor | Division Branch | Site Code | Assembly | Senate | Special Program Status | Status Date | Restricted Use | Funding | Latitude | Longitude | APN | Past Use | Potential COC | Confirmed COC | Potential Description | Alias Name | Alias Type | Alias Name | Alias Type | Alias Name | Alias Type | Alias Name | Alias Type | Alias Name | Alias Type |
|----------|------|-----------|-----------|---------------|-----------------|------|--------------------------|--------------------------------|--------------|-------------------------|----------------|-----------|-----------------|----------|---------|-------|-------------------|------------|---------------|---------|----------|-----------|------|----------|-------------|-------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0.179 mi.| SCH  | 947 ft.   | School Cleanup | School | NONE SPECIFIED | 11.4 | NO | SMBRP | SMBRP | DTSC - Site Mitigation And Brownfield Reuse Program | NEAL HUTCHISON | Juan Koponen | Cleanup Sacramento | 204162 | 06      | 02      | Not reported | 2010-12-30 00:00:00 | NO            | School District | 38.4221541921792 | -122.735437489636 | AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA | 31001, 30001, 30006, 30007, 30008, 30013, 30019, 30022, 30027 | 30019,30022-NO,31001,30027-NO,30001-NO,30006-NO,30007-NO,30008-NO,30013 | OTH, SED, SOIL, SV | New Burbank Elementary School | Alternate Name | Alternate Name | Alternate Name | APN | New Burbank Elementary School | Former Project ID | 110033611731 | EPA (FRS #) | 204162 | Project Code (Site Code) | 70000113 | Envirostor ID Number |

**Completed Info:**
- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Preliminary Endangerment Assessment Workplan
NEW ROSELAND AREA ELEMENTARY SCHOOL  (Continued)  

Completed Date: 2006-06-16 00:00:00  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Preliminary Endangerment Assessment Report  
Completed Date: 2007-07-17 00:00:00  
Comments: Approved the Workplan conditional on submittal of a work notice.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Supplemental Site Investigation Workplan  
Completed Date: 2007-06-29 00:00:00  
Comments: DTSC approved the SSI Workplan. Project manager gave verbal permission to District to implement SSI Workplan on 6/21/07.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Supplemental Site Investigation Report  
Completed Date: 2008-04-07 00:00:00  
Comments: DTSC approved the SSI report with a further action determination for lead around the perimeters of two buildings and PAHs in sediments in Roseland Creek, next to Burbank Avenue.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Removal Action Workplan  
Completed Date: 2009-03-09 00:00:00  
Comments: RAW approved for implementation.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: 4.15 Request  
Completed Date: 2007-09-21 00:00:00  
Comments: 4.15 Form and Partial Site Approval are uploaded under the "Partial Site Approval" activity.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Fact Sheets  
Completed Date: 2008-10-31 00:00:00  
Comments: The DTSC public participation specialist sent the project manager a copy of the formatted Fact Sheet (minus the dates) for the Removal Action Workplan.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Community Profile  
Completed Date: 2008-06-29 00:00:00  
Comments: PPS sent a PDF of the Final Community Profile.

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Public Notice  
Completed Date: 2008-10-27 00:00:00  
Comments: Final Public Notice completed and uploaded.
NEW ROSELAND AREA ELEMENTARY SCHOOL (Continued)  

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Environmental Oversight Agreement  
Completed Date: 2005-09-12 00:00:00  
Comments: Not reported  

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: CEQA - Notice of Exemption  
Completed Date: 2009-03-09 00:00:00  
Comments: NOE for RAW approved.  

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Partial Site Approval  
Completed Date: 2007-09-21 00:00:00  
Comments: DTSC issued a partial site approval and approved CDE Form SFPD 4.15.  

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: School Cleanup Agreement  
Completed Date: 2007-09-05 00:00:00  
Comments: Not reported  

Future Area Name: Not reported  
Future Sub Area Name: Not reported  
Future Document Type: Not reported  
Future Due Date: Not reported  
Schedule Area Name: PROJECT WIDE  
Schedule Sub Area Name: Not reported  
Schedule Document Type: Land Use Restriction  
Schedule Due Date: 2008-06-01 00:00:00  
Schedule Revised Date: Not reported  

ENVIROSTOR:  
Site Type: School Cleanup  
Site Type Detailed: School  
Acres: 11.4  
NPL: NO  
Regulatory Agencies: SMBRP  
Lead Agency: SMBRP  
Program Manager: NEAL HUTCHISON  
Supervisor: Juan Koponen  
Division Branch: Cleanup Sacramento  
Facility ID: 70000113  
Site Code: 204162  
Assembly: 06  
Senate: 02  
Special Program: Not reported  
Status: Inactive - Action Required  
Status Date: 2010-12-30 00:00:00  
Restricted Use: NO  
Site Mgmt. Req.: NONE SPECIFIED  
Funding: School District  
Latitude: 38.4221541921792  
Longitude: -122.735437489936  
APN: 125-321-001
NEW ROSELAND AREA ELEMENTARY SCHOOL (Continued) S107736874

Past Use: AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: 31001, 30001, 30006, 30007, 30008, 30013, 30019, 30022, 30027
Confirmed COC: 30019, 30022-NO, 31001, 30027-NO, 30001-NO, 30006-NO, 30007-NO, 30008-NO, 30013
Potential Description: OTH, SED, SOIL, SV
Alias Name: New Burbank Elementary School
Alias Type: Alternate Name
Alias Name: Roseland Elementary School
Alias Type: Alternate Name
Alias Name: 125-321-001
Alias Type: APN
Alias Name: New Burbank Elementary School
Alias Type: Former Project ID
Alias Name: 110033611731
Alias Type: EPA (FRS #)
Alias Name: 204162
Alias Type: Project Code (Site Code)
Alias Name: 70000113
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 2006-06-16 00:00:00
Comments: Approved the Workplan conditional on submission of a work notice.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 2007-07-17 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 2007-06-29 00:00:00
Comments: DTSC approved the SSI Workplan. Project manager gave verbal permission to District to implement SSI Workplan on 6/21/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 2008-04-07 00:00:00
Comments: DTSC approved the SSI report with a further action determination for lead around the perimeters of two buildings and PAHs in sediments in Roseland Creek, next to Burbank Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 2009-03-09 00:00:00
Comments: RAW approved for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4,15 Request
Completed Date: 2007-09-21 00:00:00
NEW ROSELAND AREA ELEMENTARY SCHOOL (Continued)

Comments: 4.15 Form and Partial Site Approval are uploaded under the "Partial Site Approval" activity.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 2008-10-31 00:00:00
Comments: The DTSC public participation specialist sent the project manager a copy of the formatted Fact Sheet (minus the dates) for the Removal Action Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 2008-08-29 00:00:00
Comments: PPS sent a PDF of the Final Community Profile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 2008-10-27 00:00:00
Comments: Final Public Notice completed and uploaded.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 2009-09-12 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 2009-03-09 00:00:00
Comments: NOE for RAW approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Partial Site Approval
Completed Date: 2007-09-21 00:00:00
Comments: DTSC issued a partial site approval and approved CDE Form SFPD 4.15.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 2007-09-05 00:00:00
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 2008-06-01 00:00:00
Schedule Revised Date: Not reported
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<td>Juan Koponen</td>
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**Completed Info:**

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** School Cleanup Agreement
- **Completed Date:** 2010-05-01 00:00:00
- **Comments:** mailed fully executed SCA to District

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Inactive Status Letter
- **Completed Date:** 2011-05-11 00:00:00
- **Comments:** PM prepared and processed inactive letter.

**Completed Area Name:** PROJECT WIDE
MEADOW VIEW ELEMENTARY SCHOOL EXPANSION (Continued)

Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 2011-04-14 00:00:00
Comments: PM received e-mails from PPS, District, and District's consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 2009-04-09 00:00:00
Comments: Received EOA Application and prepared agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 2009-05-15 00:00:00
Comments: PM requested a PEA-SSI workplan to complete delineation of the contamination identified in the Phase II report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 2009-10-08 00:00:00
Comments: DTSC approved the PEA workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 2010-07-13 00:00:00
Comments: PM approved the PEA report with a further action determination. See uploaded approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 2010-06-24 00:00:00
Comments: PM received e-mails from PPS, District, and District's consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 2011-04-15 00:00:00
Comments: PM received e-mails from PPS, District, and District's consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 2011-04-15 00:00:00
Comments: PM received e-mails from PPS, District, and District's consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.
MEADOW VIEW ELEMENTARY SCHOOL EXPANSION (Continued)  S109548372

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 2011-03-03 00:00:00
Comments: PM received finalized Public Notice (English and Spanish) on 2/23/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 2009-05-08 03:00:00
Comments: Signed by Perf Minger 05/8/09

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: School Cleanup
Site Type Detailed: School
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: NEAL HUTCHISON
Supervisor: Juan Koponen
Division Branch: Cleanup Sacramento
Facility ID: 60001076
Site Code: 204232
Assembly: 06, 07
Senate: 02, 03
Special Program: Not reported
Status: Inactive - Action Required
Status Date: 2011-05-11 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: School District
Latitude: 38.413060000000002
Longitude: -122.73029
APN: 043-072-007
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: 31001, 30001, 30003, 30004, 30006, 30007, 30008, 30010, 30013, 30023, 30024, 30025
Confirmed COC: 30001-NO,30003-NO,30004-NO,30024-NO,30025-NO,31001,30023-NO,30013-NO, 30006-NO,30007-NO,30008-NO,30010-NO
Potential Description: SOIL
Alias Name: Meadow View Elementary School Extension
Alias Type: Alternate Name
Alias Name: 043-072-007
Alias Type: APN
Alias Name: 204232

TC3124608.1s Page 15
MEADOW VIEW ELEMENTARY SCHOOL EXPANSION (Continued)  S109548372

Alias Type: Project Code (Site Code)
Alias Name: 60001076
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 2010-09-01 00:00:00
Comments: mailed fully executed SCA to District

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inactive Status Letter
Completed Date: 2011-05-11 00:00:00
Comments: PM prepared and processed inactive letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 2011-04-14 00:00:00
Comments: PM received e-mails from PPS, District, and District's consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 2009-04-09 00:00:00
Comments: Received EOA Application and prepared agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 2009-05-15 00:00:00
Comments: PM requested a PEA-SSI workplan to complete delineation of the contamination identified in the Phase II report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 2009-10-08 00:00:00
Comments: DTSC approved the PEA workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 2010-07-13 00:00:00
Comments: PM approved the PEA report with a further action determination. See uploaded approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 2010-06-24 00:00:00
Comments: PM received e-mails from PPS, District, and District's consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.
MEADOW VIEW ELEMENTARY SCHOOL EXPANSION (Continued)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 2011-04-15 00:00:00
Comments: PM received e-mails from PPS, District, and District's consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 2011-04-15 00:00:00
Comments: PM received e-mails from PPS, District, and District's consultant stating no comments were received on the Draft RAW. PM approved the RAW for implementation on 4/14/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 2011-03-03 00:00:00
Comments: PM received finalized Public Notice (English and Spanish) on 2/23/2011.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 2009-05-08 00:00:00
Comments: Signed by Perf Mnger 05/8/09

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

5
OPTICAL COATING LABORATORY INC
WSW
STORMDRAIN @ NORTHPOINT
1/4-1/2
SANTA ROSA, CA 93582
0.436 mi.
2300 ft.

Relative: Notify 65
Lower
Actual: 112 ft.
Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562
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<th>REDWOOD CHEMICAL</th>
<th>ENVIROSTOR</th>
<th>1000592019</th>
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<tbody>
<tr>
<td>2450 STONEY POINT ROAD</td>
<td>N/A</td>
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<tr>
<td>SANTA ROSA, CA 95407</td>
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**Relative:** ENVIROSTOR

**Lower**

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<tr>
<td>Supervisor</td>
<td>Karen Toth</td>
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<td>Division Branch</td>
<td>Cleanup Berkeley</td>
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<td>Facility ID</td>
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**Alias Name:** BUDS MANUFACTURING COMPANY

**Completed Info:**

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<td>Completed Document Type</td>
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<td>Completed Date</td>
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<td>SITE SCREENING DONE POSS ONITE CONTAM</td>
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<tbody>
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<td>Completed Sub Area Name</td>
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<td>Completed Date</td>
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<td>Investigations and cleanup were conducted and a No Further Action letter was issued by the Santa Rosa Fire Dept. on May 26, 1998.</td>
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REDWOOD CHEMICAL  (Continued)  1000502019

Comments:  FACILITY IDENTIFIED RWQCB COMPLAINT 3/13/80 - DISCH TO DITCH

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

7  WEST AVENUE MERCURY  CERCLIS  1012210104
NE  CAN000908799
1363 WEST AVENUE  SANTA ROSA, CA
1/4-1/2  CAN000908799
0.486 mi.  SANRAO, CA
2568 ft.

Relative:  CERCLIS: 0908799
Higher  EPA ID: CAN000908799
Actual:  Facility County: SONOMA
134 ft.  Short Name: WEST AVENUE MERCURY
Site ID:  Congressional District: Not reported
0908799  IFMS ID: 09TK
USGS Hydro Unit: Not reported
Federal Facility: Not a Federal Facility
DMNSN Number: Not reported
Site Orphan Flag: Not reported
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: R
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: Not reported
EPA Region: 09
Classification: Not reported
Site Settings Code: Not reported
NPL Status: Not on the NPL
DMNSN Unit Code: Not reported
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date: 20100105
Site Fips Code: 06097
CC Concurrence Date: Not reported
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 9270486.00000
Contact Name: Steven Calanog
Contact Tel: (415) 972-3075
Contact Title: On-Scene Coordinator (OSC)
Contact Email: Not reported
WEST AVENUE MERCURY (Continued) 1012210104

Contact ID: 13002167.00000
Contact Name: Carl Brickner
Contact Tel: (415) 972-3614
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9271184.00000
Contact Name: Karen Jurist
Contact Tel: (415) 972-3219
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 9270438.00000
Contact Name: Dawn Richmond
Contact Tel: (415) 972-3097
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: REMOVAL
Date Started: 01/13/2010
Date Completed: 01/18/2010
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.

Click this hyperlink while viewing on your computer to access
11 additional US CERCLIS Financial: record(s) in the EDR Site Report.

8  FOUCHE BROS  ENVIROSTOR  S100183334
ESE 2290 DUTTON AVENUE  N/A
1/2-1 SANTA ROSA, CA  95401
0.578 mi. 3054 ft.
3054 ft.

Relative: 133 ft.
Higher
Actual: Historical
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 49500004
Site Code: Not reported
Assembly: 07
Senate: 02
FOUCHE BROS (Continued)

Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 1993-09-27 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.417319756904
Longitude: -122.72195993714401
APN: 043-041-001
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 043-041-001
Alias Type: APN
Alias Name: 49500004
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-22 00:00:00
Comments: SITE SCREENING DONE AUTO DISMANTLER, POSS ONSITE DISP

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-03-10 00:00:00
Comments: FACILITY IDENTIFIED POLK DIR 1958

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

B9  ANDY BONDI
NNW  1834 ROSE AVENUE
1/2-1  SANTA ROSA, CA  93582
0.580 mi.  Site 1 of 2 in cluster B
3065 ft.

Relative: Notify 65
Higher
Actual: Notify 65:
126 ft.

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582
B10  ANDY BONDI  1834 ROSE AVENUE  SANTA ROSA, CA 93582
Notify 65  S100179511
0.580 mi.  3085 ft.  Site 2 of 2 in cluster B
Relative: Notify 65:
Higher
Date Reported: Not reported
Staff Initials: Not reported
Actual: Board File Number: Not reported
126 ft.  Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582

11  ANGIE KENDALL  2611 GIFFEN AVENUE  SANTA ROSA, CA 93582
Notify 65  S100179177
1/2-1  0.605 mi.  3196 ft.
Relative: Notify 65:
Lower
Date Reported: Not reported
Staff Initials: Not reported
Actual: Board File Number: Not reported
112 ft.  Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582

12  MCMINN AVENUE  ROSELAND AREA  SANTA ROSA, CA 95401
CA BOND EXP. PLAN  S100833365
1/2-1  0.661 mi.  3492 ft.
Relative: CA BOND EXP. PLAN:
Higher
Project Revenue Source Company: Not reported
Actual: Project Revenue Source Addr: Not reported
131 ft.  Project Revenue Source City,St,Zip: Not reported
Project Revenue Source Desc:
Currently there are no identified responsible parties. Therefore, Bond funds
will be used to investigate and remediate the site. If during the investigation
RPs are identified, DHS will pursue appropriate cost recovery activities. This
site is currently not on the NPL, nor does it appear to be a likely candidate
for NPL listing in the near future. Therefore, it is unlikely that federal
funds will become available for this site.

Site Description: Ground water contamination in privately-owned wells has been discovered. The
area where investigation activities have been focused is designated as the
Local Study Area and is defined as the are within a 2000-foot radius of the
intersection of McMinn Avenue and Sebastopol Road. More than 50 potential
sources of contamination have been indentified, although responsible parties
have not yet been identified.

Hazardous Waste Desc: Initial sampling and analysis of water from private wells, conducted by the
Sonoma County Public Health Department and Regional Water Quality Control
Board, indicated ground water contaminated by fuels and associated compounds
and solvents. Seven off thirty eight private wells, which were sampled by DHS in
the fall of 1986, were found to have concentrations of contaminants at or
exceeding State drinking water action levels. Contaminants which were found to
exceed State action levels include benzene, 1,2-dichloroethane (DCE),
MCMINN AVENUE (Continued)

S100833365

tetrachloroethylene (TCE) and vinyl chloride. Fuels have been found floating in monitoring wells, 1,2-dichloroethene (DCE), tetrachloroethylene (TCE) and vinyl chloride. Fuels have been found floating in monitoring wells.

Threat To Public Health & Env:
The primary threat is from consumption of contaminated well water. Migration of ground water contaminants may result in the contamination of additional wells.

Site Activity Status:
The preliminary site assessment and investigation (PSAI) has been completed and the final report was issued in July, 1987. Soil gas sampling was conducted in August, 1987. Implementation of the first Phase of the RI started June, 1988. The work to be completed in this Phase includes drilling, installation and sampling of ground water monitoring wells, drilling stratigraphic boreholes and aquifer testing. Data generated will be used to identify sources of contamination and potential RPs and to determine the direction of future work. The RWQCB has completed underground tank investigations at several locations in the study area.

WESCATTS AUTO & TRUCK PARTS INC
1569 SEBASTOPOL RD
SANTA ROSA, CA 95407

Relative: 131 ft.
Higher: 3640 ft.
Actual: 0.689 mi.
WDS: S101462892
CA WDS: 1 491000306
Facility ID:
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 1
Facility Telephone: Not reported
Facility Contact: BOB WESCATTS
Agency Name: WESCATTS BOB
Agency Address: 3664 FIR RIDGE DR
Agency City, ST, Zip: SANTA ROSA 95403
Agency Contact: BOB WESCATTS
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 3714
SIC Code 2: Not reported
Primary Waste: Stormwater Runoff
Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The facility is not a POTW.
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nords without a TTWQ will be considered a minor threat to water quality unless coded at a higher level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as

TC3124608.1s Page 23
WESCOTTS AUTO & TRUCK PARTS INC (Continued)  

cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

HAZNET:

Year: 2005
Gepaid: CAL000016435
Contact: --
Telephone: --
Mailing Name: Not reported
Mailing Address: 1569 SEBASTOPOL RD
Mailing City,St,Zip: SANTA ROSA, CA 954070000
Gen County: Sonoma
TSD EPA ID: CAD980884183
TSD County: Sacramento
Waste Category: Other organic solids
Disposal Method: H01
Tons: 2.12
Facility County: Not reported

Year: 2000
Gepaid: CAL000016435
Contact: BOB WESCOTT (PRESIDENT)
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1569 SEBASTOPOL RD
Mailing City,St,Zip: SANTA ROSA, CA 954070000
Gen County: Sonoma
TSD EPA ID: CAD044003556
TSD County: Yolo
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: H01
Tons: .6171
Facility County: Sonoma

Year: 1999
Gepaid: CAL000016435
Contact: BOB WESCOTT (PRESIDENT)
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 1569 SEBASTOPOL RD
Mailing City,St,Zip: SANTA ROSA, CA 954070000
Gen County: Sonoma
TSD EPA ID: CAD044003556
TSD County: Yolo
Waste Category: Aqueous solution with total organic residues 10 percent or more
Disposal Method: Not reported
Tons: 1.1269
Facility County: Sonoma

Year: 1999
Gepaid: CAL000016435
Contact: BOB WESCOTT (PRESIDENT)
Telephone: 0000000000
Mailing Name: Not reported
WESCOTT'S AUTO & TRUCK PARTS INC  (Continued)

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Click this hyperlink while viewing on your computer to access 6 additional CA_HAZNET: record(s) in the EDR Site Report.

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<td>Lead Agency</td>
<td>NONE SPECIFIED</td>
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<tr>
<td>Program Manager</td>
<td>Not reported</td>
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<td>Supervisor</td>
<td>Referred - Not Assigned</td>
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<td>Division Branch</td>
<td>Cleanup Berkeley</td>
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<td>Facility ID</td>
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<td>Senate</td>
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<td>Funding</td>
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<td>Longitude</td>
<td>-122.73700516326601</td>
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WESCOTTS AUTO & TRUCK PARTS INC (Continued)

Alias Name: 49500010
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-22 00:00:00
Comments: SITE SCREENING DONE SIC CODE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-04-06 00:00:00
Comments: FACILITY IDENTIFIED PHONE DIR 1987

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

14 VACANT (FORMALLY AALMETCO) SWEEPS UST 1000727888
NNW 1733 SEBASTOPOL RD ENVIROSTOR N/A
1/2-1 SANTA ROSA, CA 95407
0.692 ml. 3653 ft.
3653 ft.

Relative: Higher
Actual: 129 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 2012
Number: Not reported
Board Of Equalization: 44-035086
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 49-000-002012-000001
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
### VACANT (FORMALY AALMETCO) (Continued)

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<th>Field</th>
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<tr>
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<tr>
<td>Division Branch</td>
<td>Cleanup Berkeley</td>
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<td>Site Code</td>
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<tr>
<td>Assembly</td>
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</tr>
<tr>
<td>Senate</td>
<td>02</td>
</tr>
<tr>
<td>Special Program</td>
<td>* Rural County Survey Program</td>
</tr>
<tr>
<td>Status</td>
<td>Refer: RWQCB</td>
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<td>Status Date</td>
<td>1993-09-27 00:00:00</td>
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<td>Restricted Use</td>
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**Completed Info:**

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** Site Screening
- **Completed Date:** 1988-04-21 00:00:00
- **Comments:** SITE SCREENING DONE POSS ONSITE CONTAM

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** * Discovery
- **Completed Date:** 1988-02-10 00:00:00
- **Comments:** FACILITY IDENTIFIED SONOMA COUNTY EH - CHROME PLATING FLUID DISP ON TO SOIL

**Future Area Name:** Not reported
**Future Sub Area Name:** Not reported
**Future Document Type:** Not reported
**Future Due Date:** Not reported
**Schedule Area Name:** Not reported
**Schedule Sub Area Name:** Not reported
**Schedule Document Type:** Not reported
**Schedule Due Date:** Not reported
**Schedule Revised Date:** Not reported

---

**15 MCMINN AVENUE**

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<tr>
<td>1/2-1</td>
<td>S101482558</td>
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<td>841 MCMINN AVENUE</td>
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<td>SANTA ROSA, CA</td>
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<tr>
<td>95401</td>
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<td>0.694 mi.</td>
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<td>3665 ft.</td>
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**Relative:**

- **Higher:** Evaluation
- **Actual:** Evaluation

**Acres:** 350
MCMINN AVENUE (Continued)

NPL: NO
Regulatory Agencies: RWQCB 1 - North Coast
Lead Agency: RWQCB 1 - North Coast
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 49280005
Site Code: 200065
Assembly: 07
Senate: 02
Special Program: Not reported
Status: Refer: RWQCB
Status Date: 1994-12-05 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Responsible Party
Latitude: 38.427787166013402
Longitude: -122.7328000008518
APN: 125-142-039
Past Use: NONE SPECIFIED
Potential COC: 20017
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-142-039
Alias Type: APN
Alias Name: 110033610260
Alias Type: EPA (FRS #)
Alias Name: P21041
Alias Type: PCode
Alias Name: 200065
Alias Type: Project Code (Site Code)
Alias Name: 49280005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-21 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 1986-08-01 00:00:00
Comments: Fact Sheet

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 1988-08-01 00:00:00
Comments: Fact Sheet

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 1992-06-01 00:00:00
Comments: Fact Sheet
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<tr>
<td>Completed Document Type</td>
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MCMINN AVENUE (Continued)

Completed Date: 1995-05-16 00:00:00
Comments: Not reported
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 1991-10-29 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 1993-05-21 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 1987-11-01 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 1998-06-02 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 1989-06-19 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 1987-07-01 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-04-21 00:00:00
Comments: Facility identified: BEP - fuel oil 440,000 ug/l & gasoline detected in well. No RP identified. Site Screening Done: BEP site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 1990-03-16 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 1997-09-29 00:00:00
Comments: Not reported
MCMINN AVENUE (Continued)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 1995-12-21 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 1994-12-05 00:00:00
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ACME AUTO WRECKERS, INC.
1885 SEBASTOPOL
SANTA ROSA, CA 95407

16 NNW 1/2-1 0.703 mi. 3713 ft.

CA WDS: 1 491003958
Facility ID: 491003958
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CASE00001 The 1st 2 characters designate the state. The remaining 7 characters are assigned by the Regional Board.
Subregion: 1
Agency: ACME AUTO WRECKERS
Agency Address: 1885 SEBASTOPOL RD
Agency City, St, Zip: SANTA ROSA 95407
Agency Contact: MICHAEL J. MARQUIS
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 5015
SIC Code 2: Not reported
Primary Waste: Stormwater Runoff
Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: None of the land around this site is required to be re-created or restored.
POTW: The facility is not a POTW.

EDR ID Number: S101482558
Database(s): ENVIRCTOR
WDS: S100183332
HIST CORTESE: N/A
ACME AUTO WRECKERS, INC. (Continued)

Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

COTSESE:
Region: COTSESE
Facility County Code: 49
Reg By: WBC&D
Reg Id: 1B1SR126NUG

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 49500002
Site Code: Not reported
Assembly: 07
Senate: 02
Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 1993-09-27 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.428323262512597
Longitude: -122.739573645208
APN: 125-071-015
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-071-015
Alias Type: APN
Alias Name: 49500002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-22 00:00:00
Comments: SITE SCREENING DONE POSS ONSITE CONTAM
### ACME AUTO WRECKERS, INC. (Continued)

- **Completed Area Name:** PROJECT WIDE
- **Completed Sub Area Name:** Not reported
- **Completed Document Type:** * Discovery
- **Completed Date:** 1988-02-09 00:00:00
- **Comments:** FACILITY IDENTIFIED IND DIR 1965, RWQCB/PROP65 AUTO WASTES DISCH TO GROUND

- **Future Area Name:** Not reported
- **Future Sub Area Name:** Not reported
- **Future Document Type:** Not reported
- **Future Due Date:** Not reported
- **Schedule Area Name:** Not reported
- **Schedule Sub Area Name:** Not reported
- **Schedule Document Type:** Not reported
- **Schedule Due Date:** Not reported
- **Schedule Revised Date:** Not reported

### 17 WILSON BAUGH ENTERPRISES

- **Notify 65:**
- **North:** 805 SEBASTOPAL
- **1/2-1:** SANTA ROSA, CA 93582
- **0.703 mi.**
- **3713 ft.**
- **Relative:** Notify 65:
  - **Date Reported:** Not reported
  - **Staff Initials:** Not reported
- **Actual:** Board File Number: Not reported
- **Facility Type:** Not reported
- **Discharge Date:** Not reported
- **Incident Description:** 93582

### 18 S.W. BROWN

- **ENVIROSTOR:**
- **North:** 1175 SEBASTOPOL ROAD
- **1/2-1:** SANTA ROSA, CA 95401
- **0.754 mi.**
- **3980 ft.**
- **Relative:**
  - **Site Type:** Historical
  - **Site Type Detailed:** * Historical
  - **Acres:** Not reported
  - **NPL:** NO
  - **Regulatory Agencies:** NONE SPECIFIED
  - **Lead Agency:** NONE SPECIFIED
  - **Program Manager:** Not reported
  - **Supervisor:** Referred - Not Assigned
  - **Division Branch:** Cleanup Berkeley
  - **Facility ID:** 49500003
  - **Site Code:** Not reported
  - **Assembly:** 07
  - **Senate:** 02
  - **Special Program:** * Rural County Survey Program
  - **Status:** Refer: RWQCB
  - **Status Date:** 1993-09-27 00:00:00
  - **Restricted Use:** NO
  - **Site Mgmt. Req.:** NONE SPECIFIED
S.W. BROWN (Continued)

Funding: Not reported
Latitude: 38.429568485019203
Longitude: -122.733459513225
APN: 125-091-030
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-091-030
Alias Type: APN
Alias Name: 49500003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-22 00:00:00
Comments: SITE SCREENING DONE POTENTIAL ONSITE CONTAM

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-02-15 00:00:00
Comments: FACILITY IDENTIFIED SONOMA COUNTY EH - JUNK AUTO WET CELL BATTERIES BURIED AT SITE, VISIBLE CONTAMINATION 10' X 30'

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

C19 OPTICAL COATING LABORATORY, IN
West 2789 NORTHPOINT PKWY
1/2-1 SANTA ROSA, CA 95407
0.767 mi.
4050 ft. Site 1 of 2 in cluster C
Relative: Lower
Actual: 107 ft.

NPDES: CAG911001
Facility Status: Active
Agency Id: 365190
Region: 1
Regulatory Measure Id: 318415
Order No: R1-2006-0048
Regulatory Measure Type: Enrollee
Place Id: 246089

NPDES: 1000246761
Cortese N/A
HIST CORTESCA
CA FID UST
SLIC
HIST UST
SWEEPS UST
Notify 65
HAZNET
EMI
ENVIROSTOR

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OPTICAL COATING LABORATORY, IN (Continued)

WDID: 1B88067NSON
Program Type: NPDES
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 9/15/2006
Expiration Date Of Regulatory Measure: 6/29/2011
Termination Date Of Regulatory Measure: Not reported
Discharge Name: JDSU
Discharge Address: 430 North McCarthy Boulevard
Discharge City: Milpitas
Discharge State: CA
Discharge Zip: 95035

Cortese:
Region: CORTESE
Envirostor Id: Not reported
Site/Facility Type: Not reported
Cleanup Status: Not reported
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
EPA Id: Not reported
Owner: OPTICAL COATING LABORATORY
Enf Type: CAO
Effective Date: 9/17/1996
Order No: 96-078
Region: 1
WDID: 1B88067NSON
Swat R: Not reported
Waste Discharger System Num: Not reported
Solid Waste Id Num: Not reported
Waste Management Unit Name: Not reported
Agency Name: Not reported

CORTESE:
Region: CORTESE
Facility County Code: 49
Reg By: WBC&D
Reg Id: 1B88067NSON

CA FID UST:
Facility ID: 49000002
Regulated By: UTNKA
Regulated ID: 00054602
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7075257693
Mail To: Not reported
Mailing Address: 2789 NORTHPOINT PKY
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ROSA 95407
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
OPTICAL COATING LABORATORY, IN (Continued)  1000246761

Comments:  Not reported
Status:  Active

SLIC:
Region:  STATE
Facility Status:  Open - Remediation
Status Date:  1998-05-30 00:00:00
Global Id:  T0609793183
Lead Agency:  NORTH COAST RWQCB (REGION 1)
Lead Agency Case Number:  Not reported
Latitude:  38.417485928
Longitude:  -122.749159
Case Type:  Cleanup Program Site
Case Worker:  KSA
Local Agency:  SONOMA COUNTY
RB Case Number:  1NSR095
File Location:  Regional Board
Potential Media Affected:  Aquifer used for drinking water supply, Well used for drinking water supply
Potential Contaminants of Concern:  Trichloroethylene (TCE)
Site History:  Not reported

Click here to access the California GeoTracker records for this facility:

HIST UST:
Region:  STATE
Facility ID:  000000054602
Facility Type:  Other
Other Type:  INDUSTRIAL FACILITY
Total Tanks:  0009
Contact Name:  NOT APPLICABLE
Telephone:  7075257693
Owner Name:  OPTICAL COATING LABORATORY, IN
Owner Address:  2789 NORTHPOINT PARKWAY
Owner City,St,Zip:  SANTA ROSA, CA 95407

Tank Num:  001
Container Num:  1
Year Installed:  Not reported
Tank Capacity:  00002000
Tank Used for:  PRODUCT
Type of Fuel:  UNLEADED
Tank Construction:  Not reported
Leak Detection:  None

Tank Num:  002
Container Num:  2
Year Installed:  1979
Tank Capacity:  00001000
Tank Used for:  PRODUCT
Type of Fuel:  UNLEADED
Tank Construction:  Not reported
Leak Detection:  None

Tank Num:  003
Container Num:  3
OPTICAL COATING LABORATORY, IN (Continued)

Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Not reported

Tank Num: 004
Container Num: 4
Year Installed: 1977
Tank Capacity: 00008000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 8 inches
Leak Detection: Visual, Sensor Instrument

Tank Num: 005
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00001500
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Not reported

Tank Num: 006
Container Num: 6
Year Installed: 1984
Tank Capacity: 00002000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: Sensor Instrument

Tank Num: 007
Container Num: 7
Year Installed: 1984
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 008
Container Num: 8
Year Installed: 1984
Tank Capacity: 00000500
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 6 inches
Leak Detection: Visual, Sensor Instrument

Tank Num: 009
Container Num: 9
Year Installed: 1985
Tank Capacity: 00000500
Tank Used for: PRODUCT
OPTICAL COATING LABORATORY, IN (Continued) 1000246761

Type of Fuel: DIESEL
Tank Construction: 12 gauge
Leak Detection: Sensor Instrument

SWEEPS UST:

Status: A
Comp Number: 54602
Number: 9
Board Of Equalization: 44-028348
Ref Date: 07-01-85
Act Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 1
Swrcb Tank Id: 49-060-054602-000001
Actv Date: 07-01-85
Capacity: 2000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: 4

Status: A
Comp Number: 54602
Number: 9
Board Of Equalization: 44-028348
Ref Date: 07-01-85
Act Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 2
Swrcb Tank Id: 49-060-054602-000002
Actv Date: 07-01-85
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: A
Comp Number: 54602
Number: 9
Board Of Equalization: 44-028348
Ref Date: 07-01-85
Act Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 7
Swrcb Tank Id: 49-060-054602-000003
Actv Date: 07-01-85
Capacity: 1000
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

Status: A
OPTICAL COATING LABORATORY, IN (Continued)

Comp Number: 54602
Number: 9
Board Of Equalization: 44-028348
Ref Date: 07-01-85
Act Date: Not reported
Created Date: 02-29-88
Tank Status: A
Owner Tank Id: 9
Swrcb Tank Id: 49-060-054602-000004
Actv Date: 07-01-85
Capacity: 500
Tank Use: M.V. FUEL
Stg: P
Content: DIESEL
Number Of Tanks: Not reported

Notify 85:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562

HAZNET:
Year: 2009
Cepaid: CAD009110768
Contact: WARREN SMITH
Telephone: 7075257693
Mailing Name: Not reported
Mailing Address: 2789 NORTHPOINT PKWY
Mailing City,St,Zip: SANTA ROSA, CA 954077350
Gen County: Sonoma
TSD EPA ID: CAD980884183
TSD County: Sacramento
Waste Category: Other inorganic solid waste
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)
Tons: 2.085
Facility County: Sonoma

Year: 2009
OPTICAL COATING LABORATORY, IN (Continued)

Gepaid: CAD009110768
Contact: WARREN SMITH
Telephone: 7075257693
Mailing Name: Not reported
Mailing Address: 2789 NORTHPOINT PKWY
Mailing City,St,Zip: SANTA ROSA, CA 954077350
Gen County: Sonoma
TSD EPA ID: CAD980884183
TSD County: Sacramento
Waste Category: Laboratory waste chemicals
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY
   (H401-H129) OR (H131-H135)
Tons: 0.2325
Facility County: Sonoma

Year: 2009
Gepaid: CAD009110768
Contact: WARREN SMITH
Telephone: 7075257693
Mailing Name: Not reported
Mailing Address: 2789 NORTHPOINT PKWY
Mailing City,St,Zip: SANTA ROSA, CA 954077350
Gen County: Sonoma
TSD EPA ID: NVT330010000
TSD County: 99
Waste Category: Household waste
Disposal Method: LANDFILL OR SURFACE IMPOUNDMENT THAT WILL BE CLOSED AS LANDFILL( TO INCLUDE ON-SITE TREATMENT AND/OR STABILIZATION)
Tons: 0.5
Facility County: Sonoma

Year: 2009
Gepaid: CAD009110768
Contact: WARREN SMITH
Telephone: 7075257693
Mailing Name: Not reported
Mailing Address: 2789 NORTHPOINT PKWY
Mailing City,St,Zip: SANTA ROSA, CA 954077350
Gen County: Sonoma
TSD EPA ID: CAD980884183
TSD County: Sacramento
Waste Category: Off-specification, aged or surplus organsics
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY
   (H010-H129) OR (H131-H135)
Tons: 0.066
Facility County: Sonoma

Year: 2009
Gepaid: CAD009110768
Contact: WARREN SMITH
Telephone: 7075257693
Mailing Name: Not reported
Mailing Address: 2789 NORTHPOINT PKWY
Mailing City,St,Zip: SANTA ROSA, CA 954077350
Gen County: Sonoma
TSD EPA ID: CA0000894517
TSD County: Sacramento
OPTICAL COATING LABORATORY, IN (Continued) 1000246761

Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: STORAGE, BULKING, AND/OR TRANSFER OFF SITE--NO TREATMENT/RECOVERY (H010-H129) OR (H131-H135)
Tons: 0.0924
Facility County: Sonoma

Click this hyperlink while viewing on your computer to access 44 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:
Year: 1987
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3229
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 8
Reactive Organic Gases Tons/Yr: 3
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smaller Tons/Yr: 0

Year: 1990
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3229
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 6
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smaller Tons/Yr: 0

Year: 1995
County Code: 49
Air Basin: SF
Facility ID: 1535
Air District Name: BA
SIC Code: 3827
Air District Name: BAY AREA AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
OPTICAL COATING LABORATORY, IN (Continued)  1000246761

SOX - Oxides of Sulphur Tons/Yr:  0
Particulate Matter Tons/Yr:  0
Part. Matter 10 Micrometers & Smlr Tons/Yr:  0

Year:  1996
County Code:  49
Air Basin:  SF
Facility ID:  1535
Air District Name:  BA
SIC Code:  2837
Air District Name:  BAY AREA AQMD
Community Health Air Pollution Info System:  Not reported
Consolidated Emission Reporting Rule:  Not reported
Total Organic Hydrocarbon Gases Tons/Yr:  1
Reactive Organic Gases Tons/Yr:  0
Carbon Monoxide Emissions Tons/Yr:  0
NOX - Oxides of Nitrogen Tons/Yr:  0
SOX - Oxides of Sulphur Tons/Yr:  0
Particulate Matter Tons/Yr:  0
Part. Matter 10 Micrometers & Smlr Tons/Yr:  0

Year:  1997
County Code:  49
Air Basin:  SF
Facility ID:  1535
Air District Name:  BA
SIC Code:  3827
Air District Name:  BAY AREA AQMD
Community Health Air Pollution Info System:  Not reported
Consolidated Emission Reporting Rule:  Not reported
Total Organic Hydrocarbon Gases Tons/Yr:  2
Reactive Organic Gases Tons/Yr:  1
Carbon Monoxide Emissions Tons/Yr:  0
NOX - Oxides of Nitrogen Tons/Yr:  0
SOX - Oxides of Sulphur Tons/Yr:  0
Particulate Matter Tons/Yr:  0
Part. Matter 10 Micrometers & Smlr Tons/Yr:  0

Year:  1998
County Code:  49
Air Basin:  SF
Facility ID:  1535
Air District Name:  BA
SIC Code:  3827
Air District Name:  BAY AREA AQMD
Community Health Air Pollution Info System:  Not reported
Consolidated Emission Reporting Rule:  Not reported
Total Organic Hydrocarbon Gases Tons/Yr:  2
Reactive Organic Gases Tons/Yr:  1
Carbon Monoxide Emissions Tons/Yr:  0
NOX - Oxides of Nitrogen Tons/Yr:  0
SOX - Oxides of Sulphur Tons/Yr:  0
Particulate Matter Tons/Yr:  0
Part. Matter 10 Micrometers & Smlr Tons/Yr:  0

Year:  1999
County Code:  49
OPTICAL COATING LABORATORY, IN (Continued)

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EDR ID Number: 1000246761
**OPTICAL COATING LABORATORY, IN** (Continued)

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## OPTICAL COATING LABORATORY, IN (Continued)

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### Alias

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OPTICAL COATING LABORATORY, IN (Continued)

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

C20  JDS UNIPHASE  CERC-NFRAP  1000246750
West  2789 NORTHPOINT PARKWAY  RCRA-LQG  CAD009110768
1/2-1  SANTA ROSA, CA 95407  FINDS  WDS
0.767 mi.  Site 2 of 2 in cluster C
4050 ft.  MANIFEST  ENVIROSTOR

Relative: Lower
Actual: 107 ft.

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13053704.00000
Person ID: 9271184.00000
Contact Sequence ID: 13059774.00000
Person ID: 9270048.00000
Contact Sequence ID: 13090507.00000
Person ID: 13002167.00000
Contact Sequence ID: 13174478.00000
Person ID: 9270438.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: O C Li
Alias Address: 2789 NORTHPOINT PKWY
SANTA ROSA, CA 95407

Alias Name: OPTICAL CODING
Alias Address: Not reported
CA

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 12/01/1988
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 03/01/1990
Priority Level: Low priority for further assessment

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 10/02/1992
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information
**JDS UNIPHASE (Continued)**

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**RCRA-LQG:**
- Date form received by agency: 01/19/2010
- Facility name: JDS UNIPHASE
- Facility address: 2789 NORTHPOINT PARKWAY SANTA ROSA, CA 95407
- EPA ID: CAD009110768
- Mailing address: NORTHPOINT PARKWAY SANTA ROSA, CA 95407
- Contact: DIANA L BOETTCHER
- Contact address: NORTHPOINT PARKWAY SANTA ROSA, CA 95407
- Contact country: US
- Contact telephone: (707) 525-7770
- Contact email: DIANA.BOETTCHER@JDSU.COM
- EPA Region: 09
- Land type: Private
- Classification: Large Quantity Generator
- Description: Handler; generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

**Owner/Operator Summary:**
- Owner/operator name: OPTICAL COATING LABORATORY INC
- Owner/operator address: 2789 NORTHPOINT PKWY SANTA ROSA, CA 95407
- Owner/operator telephone: (707) 525-6440
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: Not reported
- Owner/Op end date: Not reported

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JDS UNIPHASE (Continued)

Owner/operator name: JDS UNIPHASE
Owner/operator address: NORTH MCCARTHY BLVD
                   MILPITAS, CA 95035
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/06/2008
Facility name: JDS UNIPHASE
Site name: JDSU
Classification: Large Quantity Generator

Date form received by agency: 02/27/2006
Facility name: JDS UNIPHASE
Site name: JDSU
Classification: Large Quantity Generator

Date form received by agency: 06/02/2004
Facility name: JDS UNIPHASE
Classification: Large Quantity Generator

Date form received by agency: 02/23/2004
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY, INC
Classification: Large Quantity Generator
JDS UNIPHASE (Continued)

Date form received by agency: 02/22/2002
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY, INC.
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY, INC
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY, INC
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY INC
Classification: Large Quantity Generator

Date form received by agency: 05/28/1996
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY INC
Classification: Large Quantity Generator

Date form received by agency: 03/21/1996
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY, INC
Classification: Large Quantity Generator

Date form received by agency: 03/29/1994
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY INC.
Classification: Large Quantity Generator

Date form received by agency: 02/12/1992
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY INC
Classification: Large Quantity Generator

Date form received by agency: 04/16/1990
Facility name: JDS UNIPHASE
Site name: OPTICAL COATING LABORATORY INC.
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 172
Waste name: 172

Waste code: 181
Waste name: 181

Waste code: 214
Waste name: 214

Waste code: 331
Waste name: 331
JDS UNIPHASE (Continued)

Waste code: 352
Waste name: 352

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D011
Waste name: SILVER

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLEND CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLEND CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F006, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLEND CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2011

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 3245

Waste code: D007
Waste name: CHROMIUM

Amount (Lbs): 6270
JDS UNIPHASE (Continued)

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 7570

Waste code: D011
Waste name: SILVER
Amount (Lbs): 8070

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 3115

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 625

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 625

Waste code: LABP
Waste name: LAB PACK
Amount (Lbs): 850

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/16/2005
Date achieved compliance: 06/29/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/16/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
## JDS UNIPHASE (Continued)

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JDS UNIPHASE (Continued)

Proposed penalty amount: 15500
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/19/1989
Date achieved compliance: 07/12/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/02/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

Evaluation Action Summary:
Evaluation date: 06/29/2005
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/16/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/29/2005
Evaluation lead agency: State

Evaluation date: 02/16/2005
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/16/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 03/07/2005
Evaluation lead agency: State

Evaluation date: 02/16/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/29/2005
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 02/16/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/07/2005
Evaluation lead agency: State

Evaluation date: 01/19/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
JDS UNIPHASE (Continued)

Area of violation: Generators - General
Date achieved compliance: 07/12/1989
Evaluation lead agency: State

FINDS:

Registry ID: 110000902676

Environmental Interest/Information System

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (CIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

CA WDS:

Facility ID: North Coastal 88067NSON
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CA0024694 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 1
Facility Telephone: Not reported
Facility Contact: DIANA BOETTCHER
Agency Name: OPTICAL COATING LABORATORY
Agency Address: 2789 NORTHPOINT PARKWAY
Agency City,St,Zip: SANTA ROSA 954077397
Agency Contact: PAT BARNES
Agency Telephone: 7075456440
Agency Type: Private
JDS UNIPHASE (Continued)

SIC Code: 3811
SIC Code 2: Not reported
Primary Waste: Contaminated Ground Water
Primary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Secondary Waste: Contaminated Soil
Secondary Waste Type: Hazardous/Influent or Solid Wastes that contain toxic, corrosive, ignitable or reactive substances and must be managed according to applicable DOHS standards.
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The facility is not a POTW.
Treat To Water: Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Aesthetic impairment would include nuisance from a waste treatment facility.
Complexity: Category B - Any facility having a physical, chemical, or biological waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities.

NY MANIFEST:
EPA ID: CAD009110768
Country: USA
Mailing Name: OPTICAL COATING LABORATORY INC
Mailing Contact: OPTICAL COATING LABORATORY INC
Mailing Address: 2789 NORTHPOINT PARKWAY
Mailing Address 2: Not reported
Mailing City: SANTA ROSA
Mailing State: CA
Mailing Zip: 95407
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 707-525-7734

Document ID: NYA8015661
Manifest Status: Completed copy
Trans1 State ID: 000000000
Trans2 State ID: 000000000
Generator Ship Date: 890412
Trans1 Recv Date: 890412
Trans2 Recv Date: Not reported
TSD Site Recv Date: 890420
Part A Recv Date: 890419
Part B Recv Date: 890425
Generator EPA ID: CAD009110768
Trans1 EPA ID: NY1989769947
Trans2 EPA ID: Not reported
TSDF ID: NYD00632372
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00155
Units: P - Pounds
JDS UNIPHASE (Continued) 1000246750

Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 89

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 49380001
Site Code: Not reported
Assembly: 07
Senate: 02
Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 1993-09-27 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.41555555555599
Longitude: -122.7561111111111
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: OPTI
Alias Type: Alternate Name
Alias Name: CAD009110768
Alias Type: EPA Identification Number
Alias Name: 110000902676
Alias Type: EPA (FRS #)
Alias Name: 49380001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1990-03-01 00:00:00
Comments: SITE SCREENING DONE EPA COMPLETED PRELIMINARY ASSESSMENT & RECOMMEND SCREENING SITE INSPECTION (MEDIUM PRIORITY).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-10-03 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
JDS UNIPHASE (Continued)

Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-10-03 00:00:00
Comments: FACILITY IDENTIFIED ANONYMOUS TIP. SITE SCREENING DONE BETWEEN 1961 AND 1970 SURFACE IMPOUNDMENTS WERE IN USE. WASTES WERE DISPOSED ONSITE. IMPOUNDMENTS ARE CURRENTLY UNDER BUILDINGS. NEED TO FIND AERIAL PHOTOS SHOWING THE SITE DURING THAT PERIOD.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

21 GREG'S AUTOMOTIVE
ESE DUTTON
1/2-1 SANTA ROSA, CA 93582
0.776 mi.
4096 ft.
Notify 65: S100179294
N/A
Relative:
Higher
Actual: 134 ft.
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582

22 COAST AUTO WRECKING
NNE 949 SEBASTOPOL RD
1/2-1 SANTA ROSA, CA 95401
0.795 mi.
4196 ft.
Notify 65: S101482588
N/A
Relative:
Higher
Actual: 139 ft.
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies:
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Berkeley
Facility ID: 49500001
Site Code: Not reported
Assembly: 07
Senate: 02
Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 1993-10-08 00:00:00
Restricted Use: NO
COAST AUTO WRECKING (Continued)

Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.430326752292302
Longitude: -122.730761656244
APN: 125-101-049
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-101-049
Alias Type: APN
Alias Name: 49500001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-21 00:00:00
Comments: SITE SCREENING DONE POSS ONSITE CONTAM

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-02-18 00:00:00
Comments: FACILITY IDENTIFIED POLK DIR 1958

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

23
NNE
1/2-1
0.799 mi.
4218 ft.

SEBASTOPAL B.P.
760 SEBASTOPAL
SANTA ROSA, CA 93582

Notify 65
S100179311
N/A

Relative: Notify 65:
Higher
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582

Actual: 140 ft.
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<thead>
<tr>
<th>Map ID</th>
<th>NNE</th>
<th>Site</th>
<th>Notify</th>
<th>EDR ID Number</th>
<th>EPA ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>EXCHANGE BANK DATA CENTER</td>
<td>330 SEbastopol</td>
<td>1/2-1</td>
<td>350 Rantan, CA 95407</td>
<td>Notify 65</td>
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<tr>
<td>0.814 mi.</td>
<td>4298 ft.</td>
<td>Date Reported: Not reported</td>
<td>Staff Initials: Not reported</td>
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<td></td>
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<td>Relative: Notify 65</td>
<td>Higher</td>
<td>Board File Number: Not reported</td>
<td>Facility Type: Not reported</td>
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<td>Actual: 141 ft.</td>
<td>Incident Description: 93582</td>
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<td>25</td>
<td>SANTA ROSA CIRCUITS</td>
<td>35 AND 48 WEST BAHAM AVENUE</td>
<td>NE</td>
<td>SANTA ROSA, CA 95407</td>
<td>Envirostor 1000395378</td>
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<td>1/2-1</td>
<td>0.964 mi.</td>
<td>5087 ft.</td>
<td>Site Type: Evaluation</td>
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<td>Relative: Envirostor</td>
<td>Higher</td>
<td>Site Type Detailed: Evaluation</td>
<td>Acres: 0.5</td>
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<td>Actual: 146 ft.</td>
<td>NPL: NO</td>
<td>Regulatory Agencies: SMBRP</td>
<td>Lead Agency: SMBRP</td>
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<td></td>
<td></td>
<td>Program Manager: Not reported</td>
<td>Supervisor: Karen Toth</td>
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<td>Division Branch: Cleanup Berkeley</td>
<td>Facility ID: 49360001</td>
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<tr>
<td></td>
<td></td>
<td>Site Code: Not reported</td>
<td>Assembly: 07</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>Senate: 02</td>
<td>Special Program: EPA - PASI</td>
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<tr>
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<td></td>
<td>Status: Refer: RWQCB</td>
<td>Status Date: 2008-03-25 00:00:00</td>
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<td>Restricted Use: NO</td>
<td>Site Mgmt. Req.: NONE SPECIFIED</td>
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<td>Funding: EPA Grant</td>
<td>Latitude: 38.4262900000000002</td>
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<td></td>
<td>Longitude: -122.72202</td>
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<tr>
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<td>Past Use: NONE SPECIFIED</td>
<td>Potential COC: 20011</td>
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<td>Alias Name: 49360001</td>
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<td>Completed Document Type: Site Screening</td>
<td>Completed Date: 1987-03-18 00:00:00</td>
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<td>Comments: Not reported</td>
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</table>
SANTA ROSA CIRCUITS (Continued)

Completed Date: 2008-03-25 00:00:00
Comments: Soil cleanup was conducted and approved by the the Santa Rosa Fire Department and the North Coast Water Board on March 23 and March 30, 2005 respectively. Soil was contaminated with motor oil and lead. Groundwater results for volatile organic compounds and selected metals were below the Maximum Contaminant Levels (MCLs).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1987-03-18 00:00:00
Comments: FACILITY IDENTIFIED INFO ACQUIRED FROM DHS FILES. SITE SCREENING DONE MORE INFO NEEDED TO DETERMINE THE HAZARD POTENTIAL. CONTACT: EILEEN KORTAS FIRE DEPT.,955 SONOMA AVE., SANTA ROSA, CA. (707) 576-5311.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

26 AM/PM MINI MART ESE 440 HEARN AVENUE 1/2-1 SANTA ROSA, CA 93582 0.976 mi. 5154 ft.

Relative: CORTESE
Higher Region: CORTESE
Facility County Code: 49
Actual: LTNKA
137 ft.

LUST: STATE
Global Id: T0609700647
Latitude: 38.414206947
Longitude: -122.717746665
Case Type: LUST Cleanup Site
Status: Open - Remediation
Status Date: 2005-01-26 00:00:00
Lead Agency: NORTH COAST RWQCB (REGION 1)
Case Worker: JAT
Local Agency: SANTA ROSA, CITY OF
RB Case Number: 1TSR150
LOC Case Number: Not reported
File Location: Regional Board
Potential Media Affected: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: In April 1990, one 6,000-gallon and two 10,000-gallon underground storage tanks (USTs) were removed from the north side of the site. Soil samples collected from the excavation pit, at depths ranging between 16 and 20 feet below ground surface (bgs), showed total
AM/PM MINI MART (Continued)

petroleum hydrocarbons as gasoline (TPH-g) and benzene at maximum concentrations of 15 mg/kg and 2.3 mg/kg, respectively. Groundwater and soil remediation has been conducted at the site since 2005, using shallow groundwater extraction from an interceptor trench, deeper-zone extraction from extraction wells, and several multi-phase extraction events using a mobile extraction unit. Quarterly groundwater monitoring events were conducted at the site from 1999 until mid 2009. Semi-annual groundwater sampling and analysis at selected monitoring wells were implemented in mid 2009.

Click here to access the California GeoTracker records for this facility:

LUST:
- Global Id: T0609700647
- Contact Type: Regional Board Caseworker
- Contact Name: JIM TISCHLER
- Organization Name: NORTH COAST RWQCB (REGION 1)
- Address: 5550 SKYLANE BOULEVARD, SUITE A
- City: SANTA ROSA
- Email: jtischler@waterboards.ca.gov
- Phone Number: Not reported

LUST:
- Global Id: T0609700647
- Action Type: ENFORCEMENT
- Date: 2009-03-21 00:00:00
- Action: Staff Letter

- Global Id: T0609700647
- Action Type: Other
- Date: 1950-01-01 00:00:00
- Action: Leak Discovery

- Global Id: T0609700647
- Action Type: RESPONSE
- Date: 2003-07-04 00:00:00
- Action: Other Report / Document

- Global Id: T0609700647
- Action Type: RESPONSE
- Date: 2005-04-07 00:00:00
- Action: Other Report / Document

- Global Id: T0609700647
- Action Type: RESPONSE
- Date: 2006-04-30 00:00:00
- Action: Monitoring Report - Quarterly

- Global Id: T0609700647
- Action Type: ENFORCEMENT
- Date: 2008-03-02 00:00:00
- Action: Staff Letter

- Global Id: T0609700647
- Action Type: RESPONSE
- Date: 2008-09-04 00:00:00
- Action: Clean Up Fund - 5-Year Review Summary
AM/PM MINI MART (Continued)

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2003-05-06 00:00:00
Action: File review

Global Id: T0609700647
Action Type: RESPONSE
Date: 2009-04-30 00:00:00
Action: Monitoring Report - Annually

Global Id: T0609700647
Action Type: RESPONSE
Date: 2008-04-30 00:00:00
Action: Monitoring Report - Annually

Global Id: T0609700647
Action Type: RESPONSE
Date: 2008-01-30 00:00:00
Action: Monitoring Report - Annually

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2005-04-05 00:00:00
Action: * Verbal Communication

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2003-12-26 00:00:00
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2011-05-26 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2010-07-02 00:00:00
Action: File review

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2007-12-27 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: RESPONSE
Date: 2006-04-30 00:00:00
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2008-11-03 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
AM/PM MINI MART (Continued)

Date: 2007-09-19 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2004-03-29 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2008-01-18 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2008-04-02 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2004-03-09 00:00:00
Action: * Historical Enforcement

Global Id: T0609700647
Action Type: RESPONSE
Date: 2011-02-28 00:00:00
Action: Correspondence

Global Id: T0609700647
Action Type: RESPONSE
Date: 2009-06-30 00:00:00
Action: Interim Remedial Action Report

Global Id: T0609700647
Action Type: RESPONSE
Date: 2007-11-19 00:00:00
Action: Other Report / Document

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2002-08-22 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2004-02-26 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2003-05-12 00:00:00
Action: Meeting

Global Id: T0609700647
Action Type: RESPONSE
Date: 2007-01-31 00:00:00
Action: Monitoring Report - Quarterly
AM/PM MINI MART (Continued)

Global Id: T0609700647
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0609700647
Action Type: RESPONSE
Date: 2002-06-30 00:00:00
Action: Soil and Water Investigation Workplan

Global Id: T0609700647
Action Type: RESPONSE
Date: 2003-01-30 00:00:00
Action: Soil and Water Investigation Report

Global Id: T0609700647
Action Type: RESPONSE
Date: 2003-03-03 00:00:00
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2003-06-02 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2010-07-20 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: ENFORCEMENT
Date: 2009-07-30 00:00:00
Action: Staff Letter

Global Id: T0609700647
Action Type: REMEDIATION
Date: 1950-01-01 00:00:00
Action: Dual Phase Extraction

Global Id: T0609700647
Action Type: Other
Date: 1950-01-01 00:00:00
Action: Leak Reported

Global Id: T0609700647
Action Type: RESPONSE
Date: 2008-03-31 00:00:00
Action: Other Workplan

Global Id: T0609700647
Action Type: RESPONSE
Date: 2004-03-15 00:00:00
Action: Other Workplan

Global Id: T0609700647
Action Type: ENFORCEMENT
AM/PM MINI MART (Continued)  S100236216

Date: 1990-05-04 00:00:00
Action: * Historical Enforcement

Global Id: T0609700647
Action Type: RESPONSE
Date: 2004-03-09 00:00:00
Action: Unauthorized Release Form

Global Id: T0609700647
Action Type: RESPONSE
Date: 2005-04-30 00:00:00
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: RESPONSE
Date: 2004-04-30 00:00:00
Action: Monitoring Report - Quarterly

Global Id: T0609700647
Action Type: RESPONSE
Date: 2008-01-31 00:00:00
Action: Monitoring Report - Quarterly

LUST REG 1:
Region: 1
Facility ID: 1TSR150
Staff Initials: JAT

SLIC:
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 2009-07-03 00:00:00
Global Id: T0609765989
Lead Agency: NORTH COAST RWQCB (REGION 1)
Lead Agency Case Number: Not reported
Latitude: 38.4143
Longitude: -122.7199
Case Type: Cleanup Program Site
Case Worker: ZZZ
Local Agency: Not reported
RB Case Number: 1NSR150
File Location: Regional Board
Potential Media Affected: Soil, Under Investigation
Potential Contaminants of Concern: Gasoline

Site History: This site is an active gasoline station and the location of an open investigation of prior gasoline releases from USTs at the site. On March 17, 2008, a tanker truck operated by Atlantic Richfield Company (ARCO) spilled approximately 30 gallons of gasoline when a moving car contacted the fill hose as fuel was being transferred to an underground storage tank. The spilled gasoline flowed over an area approximately 25 feet wide and 50 feet long, adjacent to at least three groundwater monitoring wells. The gasoline spill was contained on the site and mopped up with absorbent materials on the night of the spill. On March 18, 2008, Regional Water Board staff inspected the area of the spill. Staff observed that the ground
AM/PM MINI MART (Continued)

Surface in the area spill contained damaged and cracked asphalt. On 
March 19, 2008, Regional Water Board staff conducted an additional 
inspection and observed that gasoline-saturated materials remained on 
the ground surface and that gasoline odors were present near the 
damaged asphalt surface. On April 3, 2008, one soil boring was 
advanced to a depth of 40 inches below ground surface in the area of 
the most extensively damaged asphalt paving. Soil samples were 
collected at 1 foot and 3 feet below ground surface for analysis of 
petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, 
xylene, MTBE and ethanol. The laboratory results showed that all 
constituents of concern were below laboratory detection levels.

Click here to access the California GeoTracker records for this facility:

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582

27 SANTA ROSA PLATING WORKS
NE 80 BARHAM AVE
1/2-1 SANTA ROSA, CA 95407
0.991 mi.
5233 ft.

Relative: ENVIROSTOR S105754203
Higher N/A
Actual: 5233 ft.
147 ft.

ENVIRONMENTAL

Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Barbara Cook
Division Branch: Cleanup Berkeley
Facility ID: 49340003
Site Code: Not reported
Assembly: 07
Senate: 02
Special Program: * Rural County Survey Program
Status: No Further Action
Status Date: 2000-01-07 00:00:00
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.425683140842997
Longitude: -122.719472579355
APN: 037-151-028
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 037-151-028
Alias Type: APN
SANTA ROSA PLATING WORKS  (Continued)  S105754203

Alias Name:  49340003
Alias Type:  Envirostor ID Number

Completed Info:
Completed Area Name:  PROJECT WIDE
Completed Sub Area Name:  Not reported
Completed Document Type:  Site Screening
Completed Date:  1988-05-13 00:00:00
Comments:  SITE SCREENING DONE SIC CODE - FORMERLY LOCATED AT 1465 SANTA ROSA AVENUE

Completed Area Name:  PROJECT WIDE
Completed Sub Area Name:  Not reported
Completed Document Type:  * Discovery
Completed Date:  1988-04-20 00:00:00
Comments:  FACILITY IDENTIFIED IND 1957

Future Area Name:  Not reported
Future Sub Area Name:  Not reported
Future Document Type:  Not reported
Future Due Date:  Not reported
Schedule Area Name:  Not reported
Schedule Sub Area Name:  Not reported
Schedule Document Type:  Not reported
Schedule Due Date:  Not reported
Schedule Revised Date:  Not reported
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<th>Site Address</th>
<th>Zip</th>
<th>Database(s)</th>
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<td>S105050963</td>
<td>SANTA ROSA CITY / HIGHWAY 12 INTER</td>
<td>HIGHWAY 12 @ STONY POINT ROAD</td>
<td>95401</td>
<td>SLIC</td>
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<td>S109118024</td>
<td>SANTA ROSA CITY / HIGHWAY 12 INTER</td>
<td>HWY 12 &amp; STONY POINT RD</td>
<td>95401</td>
<td>SLIC</td>
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<td>S108937598</td>
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<td>BURBANK AVE</td>
<td>95407</td>
<td>SLIC</td>
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<td>EUROCAL AUTO BODY</td>
<td>WEST COLLEGE AVENUE 345</td>
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<td>S103959175</td>
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<td>2500 GUERNEVILLE RD</td>
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<td>HAZNET</td>
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<td>1004676250</td>
<td>CALTRANS DIST 4</td>
<td>LLANO RD TO HWY 101 INTERCHANGE</td>
<td>95401</td>
<td>RCRA-SGG, FINDS</td>
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<tr>
<td>SANTA ROSA</td>
<td>S105051171</td>
<td>SANTA ROSA COMMUNITY DEVELOPMENT S</td>
<td>LUDWIG ROAD/WRIGHT ROAD/HIGHWA</td>
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<td>MISSION ARBORS</td>
<td>MISSION BLVD AT HIGHWAY 12 100</td>
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<td>LUST</td>
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<td>STONY POINT ROAD 5307</td>
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<td>WOODLAND</td>
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<td>TERRACINA SPRIGLAKE FAMILY APARTME</td>
<td>1620 MEIKLE AVE</td>
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To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update**: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

**Federal NPL site list**

**NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA’s Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

- **Date of Government Version**: 03/31/2011  
  **Source**: EPA  
  **Telephone**: N/A
- **Date Data Arrived at EDR**: 04/13/2011  
  **Last EDR Contact**: 07/12/2011
- **Date Made Active in Reports**: 06/14/2011  
  **Next Scheduled EDR Contact**: 10/24/2011
- **Number of Days to Update**: 52  
  **Data Release Frequency**: Quarterly

**NPL Site Boundaries**

**Sources**:

- EPA’s Environmental Photographic Interpretation Center (EPIC)  
  **Telephone**: 202-564-7333

  **EPA Region 1**: Telephone 617-918-1143  
  **EPA Region 6**: Telephone: 214-655-6659
  **EPA Region 3**: Telephone 215-814-5418  
  **EPA Region 7**: Telephone: 913-551-7247
  **EPA Region 4**: Telephone 404-562-8033  
  **EPA Region 8**: Telephone: 303-312-6774
  **EPA Region 5**: Telephone 312-886-6686  
  **EPA Region 9**: Telephone: 415-947-4246
  **EPA Region 10**: Telephone 206-553-8665

**Proposed NPL**: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

- **Date of Government Version**: 03/31/2011  
  **Source**: EPA  
  **Telephone**: N/A
- **Date Data Arrived at EDR**: 04/13/2011  
  **Last EDR Contact**: 07/12/2011
- **Date Made Active in Reports**: 06/14/2011  
  **Next Scheduled EDR Contact**: 10/24/2011
- **Number of Days to Update**: 52  
  **Data Release Frequency**: Quarterly

**NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

- **Date of Government Version**: 10/15/1991  
  **Source**: EPA  
  **Telephone**: 202-564-4267
- **Date Data Arrived at EDR**: 02/02/1994  
  **Last EDR Contact**: 05/16/2011
- **Date Made Active in Reports**: 03/30/1994  
  **Next Scheduled EDR Contact**: 08/29/2011
- **Number of Days to Update**: 56  
  **Data Release Frequency**: No Update Planned
Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate.

- Date of Government Version: 03/31/2011
- Source: EPA
- Date Data Arrived at EDR: 04/13/2011
- Telephone: N/A
- Date Made Active in Reports: 06/14/2011
- Last EDR Contact: 07/12/2011
- Number of Days to Update: 62
- Next Scheduled EDR Contact: 10/24/2011
- Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

- Date of Government Version: 02/25/2011
- Source: EPA
- Date Data Arrived at EDR: 03/01/2011
- Telephone: 703-412-9810
- Date Made Active in Reports: 05/02/2011
- Last EDR Contact: 06/14/2011
- Number of Days to Update: 62
- Next Scheduled EDR Contact: 09/12/2011
- Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA’s Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

- Date of Government Version: 12/10/2010
- Source: Environmental Protection Agency
- Date Data Arrived at EDR: 01/11/2011
- Telephone: 703-603-8704
- Date Made Active in Reports: 02/16/2011
- Last EDR Contact: 07/15/2011
- Number of Days to Update: 36
- Next Scheduled EDR Contact: 10/24/2011
- Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time.
This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

- Date of Government Version: 02/25/2011
- Source: EPA
- Date Data Arrived at EDR: 03/01/2011
- Telephone: 703-412-9810
- Date Made Active in Reports: 05/02/2011
- Last EDR Contact: 06/14/2011
- Number of Days to Update: 62
- Next Scheduled EDR Contact: 09/12/2011
- Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.
Federal RCRA non-CORRACCTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies
Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2011    Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011    Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011    Last EDR Contact: 06/13/2011
Number of Days to Update: 81    Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2011    Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/25/2011    Telephone: 703-603-0695
Date Made Active in Reports: 06/14/2011    Last EDR Contact: 05/13/2011
Number of Days to Update: 81    Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 04/05/2011    Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 04/05/2011    Telephone: 202-267-2180
Date Made Active in Reports: 06/14/2011    Last EDR Contact: 07/05/2011
Number of Days to Update: 70    Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites
Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 06/15/2011    Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/16/2011    Telephone: 916-323-3400
Date Made Active in Reports: 07/15/2011    Last EDR Contact: 05/16/2011
Number of Days to Update: 29    Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database
The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/15/2011  Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/16/2011  Telephone: 916-323-3400
Date Made Active in Reports: 07/15/2011  Last EDR Contact: 06/16/2011
Number of Days to Update: 29  Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System
Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/23/2011  Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 06/24/2011  Telephone: 916-341-6320
Date Made Active in Reports: 06/16/2011  Last EDR Contact: 05/24/2011
Number of Days to Update: 22  Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 03/01/2001  Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 04/23/2001  Telephone: 858-637-5595
Date Made Active in Reports: 05/21/2001  Last EDR Contact: 09/27/2011
Number of Days to Update: 28  Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004  Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004  Telephone: 760-776-8943
Date Made Active in Reports: 03/24/2004  Last EDR Contact: 05/02/2011
Number of Days to Update: 27  Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: No Update Planned

LUST REG 5V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005  Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Date Data Arrived at EDR: 06/07/2005  Telephone: 760-241-7365
Date Made Active in Reports: 06/29/2005  Last EDR Contact: 06/13/2011
Number of Days to Update: 22  Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 09/08/2003  Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003  Telephone: 530-542-5572
Date Made Active in Reports: 10/07/2003  Last EDR Contact: 06/13/2011
Number of Days to Update: 27  Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2009
Date Data Arrived at EDR: 07/22/2006
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-484-4634
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/08/2011
Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 08/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank site, please contact the appropriate regulatory agency.

Date of Government Version: 06/20/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 17

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/21/2011
Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.
SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 06/20/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/08/2011
Number of Days to Update: 17

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/21/2011
Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/20/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/16/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2005  Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005  Telephone: 916-444-3291
Date Made Active in Reports: 04/21/2005  Last EDR Contact: 06/13/2011
Number of Days to Update: 16  Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005  Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005  Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005  Last EDR Contact: 05/16/2011
Number of Days to Update: 22  Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004  Source: California Regional Water Quality Control Board, Lahontan Region
Date Data Arrived at EDR: 09/07/2004  Telephone: 530-542-5574
Date Made Active in Reports: 10/12/2004  Last EDR Contact: 05/16/2011
Number of Days to Update: 35  Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004  Source: California Regional Quality Control Board, Colorado River Basin Region
Date Data Arrived at EDR: 11/29/2004  Telephone: 760-346-7491
Date Made Active in Reports: 01/04/2005  Last EDR Contact: 05/02/2011
Number of Days to Update: 36  Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008  Source: California Region Water Quality Control Board Santa Ana Region (8)
Date Data Arrived at EDR: 04/03/2008  Telephone: 951-782-3298
Date Made Active in Reports: 04/14/2008  Last EDR Contact: 09/13/2011
Number of Days to Update: 11  Next Scheduled EDR Contact: 09/13/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality
from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007  Source: California Regional Water Quality Control Board San Diego Region (9)
Date Data Arrived at EDR: 09/11/2007  Telephone: 858-467-2980
Date Made Active in Reports: 09/28/2007  Last EDR Contact: 05/09/2011
Number of Days to Update: 17  Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
Date of Government Version: 05/17/2011  
Source: EPA Region 10  
Date Data Arrived at EDR: 05/19/2011  
Telephone: 206-553-2857  
Date Made Active in Reports: 06/14/2011  
Last EDR Contact: 05/02/2011  
Number of Days to Update: 26  
Next Scheduled EDR Contact: 08/15/2011  
Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 03/07/2011  
Source: EPA Region 1  
Date Data Arrived at EDR: 05/20/2011  
Telephone: 617-918-1313  
Date Made Active in Reports: 06/14/2011  
Last EDR Contact: 05/03/2011  
Number of Days to Update: 25  
Next Scheduled EDR Contact: 08/15/2011  
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/16/2011  
Source: EPA Region 8  
Date Data Arrived at EDR: 05/17/2011  
Telephone: 303-312-6271  
Date Made Active in Reports: 06/14/2011  
Last EDR Contact: 05/02/2011  
Number of Days to Update: 28  
Next Scheduled EDR Contact: 08/15/2011  
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/10/2011  
Source: EPA Region 6  
Date Data Arrived at EDR: 05/11/2011  
Telephone: 214-665-6597  
Date Made Active in Reports: 06/14/2011  
Last EDR Contact: 05/02/2011  
Number of Days to Update: 34  
Next Scheduled EDR Contact: 08/15/2011  
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/03/2011  
Source: EPA Region 4  
Date Data Arrived at EDR: 03/18/2011  
Telephone: 404-562-8677  
Date Made Active in Reports: 05/02/2011  
Last EDR Contact: 05/02/2011  
Number of Days to Update: 45  
Next Scheduled EDR Contact: 08/15/2011  
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011  
Source: Environmental Protection Agency  
Date Data Arrived at EDR: 02/01/2011  
Telephone: 415-972-3372  
Date Made Active in Reports: 03/21/2011  
Last EDR Contact: 05/02/2011  
Number of Days to Update: 48  
Next Scheduled EDR Contact: 08/15/2011  
Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 11/04/2009  
Source: EPA Region 7  
Date Data Arrived at EDR: 05/04/2010  
Telephone: 913-551-7003  
Date Made Active in Reports: 07/07/2010  
Last EDR Contact: 05/04/2010  
Number of Days to Update: 84  
Next Scheduled EDR Contact: 05/16/2011  
Data Release Frequency: Quarterly

State and tribal registered storage tank lists
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

- Date of Government Version: 06/20/2011
- Date Data Arrived at EDR: 06/21/2011
- Date Made Active in Reports: 07/08/2011
- Number of Days to Update: 17
- Source: SWRCB
- Telephone: 916-480-1028
- Last EDR Contact: 06/21/2011
- Next Scheduled EDR Contact: 10/03/2011
- Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

- Date of Government Version: 08/01/2009
- Date Data Arrived at EDR: 09/10/2009
- Date Made Active in Reports: 10/01/2009
- Number of Days to Update: 21
- Source: State Water Resources Control Board
- Telephone: 916-341-5712
- Last EDR Contact: 07/08/2011
- Next Scheduled EDR Contact: 10/24/2011
- Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

- Date of Government Version: 05/17/2011
- Date Data Arrived at EDR: 05/19/2011
- Date Made Active in Reports: 05/14/2011
- Number of Days to Update: 26
- Source: EPA Region 10
- Telephone: 206-553-2857
- Last EDR Contact: 05/02/2011
- Next Scheduled EDR Contact: 08/15/2011
- Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

- Date of Government Version: 05/18/2011
- Date Data Arrived at EDR: 05/26/2011
- Date Made Active in Reports: 06/14/2011
- Number of Days to Update: 19
- Source: EPA Region 9
- Telephone: 415-972-3368
- Last EDR Contact: 05/02/2011
- Next Scheduled EDR Contact: 08/15/2011
- Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

- Date of Government Version: 05/16/2011
- Date Data Arrived at EDR: 05/17/2011
- Date Made Active in Reports: 06/14/2011
- Number of Days to Update: 28
- Source: EPA Region 8
- Telephone: 303-312-6137
- Last EDR Contact: 05/02/2011
- Next Scheduled EDR Contact: 08/15/2011
- Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

- Date of Government Version: 04/01/2011
- Date Data Arrived at EDR: 06/01/2011
- Date Made Active in Reports: 06/14/2011
- Number of Days to Update: 13
- Source: EPA Region 7
- Telephone: 913-551-7003
- Last EDR Contact: 02/03/2011
- Next Scheduled EDR Contact: 05/16/2011
- Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).
Date of Government Version: 05/10/2011  Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011  Telephone: 214-665-7591
Date Made Active in Reports: 06/14/2011  Last EDR Contact: 05/02/2011
Number of Days to Update: 34  Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/01/2011  Source: EPA Region 5
Date Data Arrived at EDR: 02/23/2011  Telephone: 312-886-6136
Date Made Active in Reports: 05/02/2011  Last EDR Contact: 05/02/2011
Number of Days to Update: 88  Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 03/03/2011  Source: EPA Region 4
Date Data Arrived at EDR: 03/18/2011  Telephone: 404-582-9424
Date Made Active in Reports: 05/02/2011  Last EDR Contact: 05/02/2011
Number of Days to Update: 45  Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 03/07/2011  Source: EPA, Region 1
Date Data Arrived at EDR: 05/04/2011  Telephone: 617-918-1313
Date Made Active in Reports: 06/14/2011  Last EDR Contact: 05/03/2011
Number of Days to Update: 41  Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010  Source: FEMA
Date Data Arrived at EDR: 02/19/2010  Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010  Last EDR Contact: 04/19/2011
Number of Days to Update: 55  Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008  Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008  Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008  Last EDR Contact: 04/20/2009
Number of Days to Update: 27  Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.
Date of Government Version: 06/15/2011  
Date Data Arrived at EDR: 06/16/2011  
Date Made Active in Reports: 07/15/2011  
Number of Days to Update: 29  
Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 06/16/2011  
Next Scheduled EDR Contact: 08/22/2011  
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing  
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.  
Date of Government Version: 02/26/2011  
Date Data Arrived at EDR: 04/05/2011  
Date Made Active in Reports: 06/14/2011  
Number of Days to Update: 70  
Source: EPA, Region 1  
Telephone: 617-918-1102  
Last EDR Contact: 07/05/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites  
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments—EPA’s Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities—especially those without EPA Brownfields Assessment Demonstration Pilots—minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA’s Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients—States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.  
Date of Government Version: 03/29/2011  
Date Data Arrived at EDR: 03/29/2011  
Date Made Active in Reports: 06/14/2011  
Number of Days to Update: 77  
Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 06/27/2011  
Next Scheduled EDR Contact: 10/10/2011  
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory  
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.  
Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39  
Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations  
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.  
Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137  
Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 08/27/2011  
Next Scheduled EDR Contact: 10/10/2011  
Data Release Frequency: No Update Planned
WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 05/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/01/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 24
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/21/2011
Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 05/24/2011
Date Data Arrived at EDR: 05/24/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 22
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/24/2011
Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/09/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/02/2011
Date Data Arrived at EDR: 03/17/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 46
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/07/2011
Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.
**Date of Government Version:** 08/08/2005  
**Source:** Department of Toxic Substance Control  
**Telephone:** 916-323-3400  
**Date Data Arrived at EDR:** 08/03/2006  
**Date Made Active in Reports:** 08/24/2006  
**Number of Days to Update:** 21  
**Next Scheduled EDR Contact:** 05/26/2009  
**Data Release Frequency:** No Update Planned

**SCH:** School Property Evaluation Program  
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Date Data Arrived at EDR</th>
<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/15/2011</td>
<td>03/04/2011</td>
<td>07/15/2011</td>
<td>29</td>
<td>08/22/2011</td>
<td>Quarterly</td>
</tr>
</tbody>
</table>

**TOXIC PITS:** Toxic Pits Cleanup Act Sites  
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Date Data Arrived at EDR</th>
<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
</table>

**CDL:** Clandestine Drug Labs  
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Date Data Arrived at EDR</th>
<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
</table>

**US HIST CDL:** National Clandestine Laboratory Register  
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
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<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/01/2007</td>
<td>11/19/2008</td>
<td>03/30/2009</td>
<td>131</td>
<td>06/22/2009</td>
<td>No Update Planned</td>
</tr>
</tbody>
</table>

**Local Lists of Registered Storage Tanks**

**CA FID UST:** Facility Inventory Database  
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Date Data Arrived at EDR</th>
<th>Date Made Active in Reports</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/31/1994</td>
<td>09/05/1995</td>
<td>09/29/1995</td>
<td>24</td>
<td>N/A</td>
<td>No Update Planned</td>
</tr>
</tbody>
</table>
### UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source</th>
<th>Date Data Arrived at EDR</th>
<th>Telephone</th>
<th>Date Made Active in Reports</th>
<th>Last EDR Contact</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
</table>

### HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source</th>
<th>Date Data Arrived at EDR</th>
<th>Telephone</th>
<th>Date Made Active in Reports</th>
<th>Last EDR Contact</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
</table>

### SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990’s. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source</th>
<th>Date Data Arrived at EDR</th>
<th>Telephone</th>
<th>Date Made Active in Reports</th>
<th>Last EDR Contact</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/01/1994</td>
<td>State Water Resources Control Board</td>
<td>07/07/2005</td>
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<td>08/11/2005</td>
<td>06/03/2005</td>
<td>35</td>
<td>N/A</td>
<td>No Update Planned</td>
</tr>
</tbody>
</table>

### Local Land Records

### LIENS 2: CERCLA Lien Information
A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source</th>
<th>Date Data Arrived at EDR</th>
<th>Telephone</th>
<th>Date Made Active in Reports</th>
<th>Last EDR Contact</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>02/01/2011</td>
<td>Environmental Protection Agency</td>
<td>02/04/2011</td>
<td>202-564-6023</td>
<td>05/02/2011</td>
<td>05/02/2011</td>
<td>87</td>
<td>08/15/2011</td>
<td>Varies</td>
</tr>
</tbody>
</table>

### LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source</th>
<th>Date Data Arrived at EDR</th>
<th>Telephone</th>
<th>Date Made Active in Reports</th>
<th>Last EDR Contact</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
</table>

### LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source</th>
<th>Date Data Arrived at EDR</th>
<th>Telephone</th>
<th>Date Made Active in Reports</th>
<th>Last EDR Contact</th>
<th>Number of Days to Update</th>
<th>Next Scheduled EDR Contact</th>
<th>Data Release Frequency</th>
</tr>
</thead>
</table>
DEED: Deed Restriction Listing
Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program’s oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder’s office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/13/2011 Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/14/2011 Telephone: 916-323-3400
Date Made Active in Reports: 07/15/2011 Last EDR Contact: 09/26/2011
Number of Days to Update: 31 Next Scheduled EDR Contact: 09/26/2011

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2010 Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/05/2011 Telephone: 202-386-4555
Date Made Active in Reports: 02/25/2011 Last EDR Contact: 07/05/2011
Number of Days to Update: 51 Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Semi-Annually

CHMIRS: California Hazardous Material Incident Reporting System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2010 Source: Office of Emergency Services
Date Data Arrived at EDR: 05/03/2011 Telephone: 916-845-8400
Date Made Active in Reports: 06/15/2011 Last EDR Contact: 05/02/2011
Number of Days to Update: 43 Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing
The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 06/20/2011 Source: State Water Quality Control Board
Date Data Arrived at EDR: 06/21/2011 Telephone: 866-480-1028
Date Made Active in Reports: 07/08/2011 Last EDR Contact: 06/21/2011
Number of Days to Update: 17 Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing
The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 06/20/2011 Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/21/2011 Telephone: 866-480-1028
Date Made Active in Reports: 07/08/2011 Last EDR Contact: 06/21/2011
Number of Days to Update: 17 Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Quarterly

Other Ascertainable Records
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-NonGen: RCRA - Non Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2011
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/07/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2011
Date Data Arrived at EDR: 02/11/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/11/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 09/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/14/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 04/05/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 02/25/2011
Date Data Arrived at EDR: 03/16/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 5

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/15/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Annually
UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010  Source: Department of Energy
Date Data Arrived at EDR: 10/21/2010  Telephone: 505-645-0011
Date Made Active in Reports: 01/28/2011  Last EDR Contact: 06/02/2011
Number of Days to Update: 99  Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2011  Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/09/2011  Telephone: 303-231-5959
Date Made Active in Reports: 05/02/2011  Last EDR Contact: 06/08/2011
Number of Days to Update: 54  Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009  Source: EPA
Date Data Arrived at EDR: 12/17/2010  Telephone: 202-566-0250
Date Made Active in Reports: 03/21/2011  Last EDR Contact: 05/27/2011
Number of Days to Update: 94  Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006  Source: EPA
Date Data Arrived at EDR: 09/29/2010  Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010  Last EDR Contact: 09/30/2011
Number of Days to Update: 84  Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date Data Arrived at EDR: 04/18/2009  Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009  Last EDR Contact: 05/27/2011
Number of Days to Update: 25  Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

FTTS INSPI: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  Source: EPA
Date Data Arrived at EDR: 04/18/2009  Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009  Last EDR Contact: 05/27/2011
Number of Days to Update: 25  Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly
HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The
information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA
(Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions
are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters
with updated records, it was decided to create a HIST FTTS database. It included records that may not be included
in the newer FTTS database updates. This database is no longer updated.
Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSPI: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA
regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation
of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some
EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing
EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that
may not be included in the newer FTTS database updates. This database is no longer updated.
Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all
registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March
1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices
being produced, and those having been produced and sold or distributed in the past year.
Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 05/02/2011
Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement
and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES)
program.
Date of Government Version: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59
Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 06/27/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS identifies generators, transporters, commercial storers and/or brokers and disposers
doing PCB's who are required to notify the EPA of such activities.
Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/22/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Annually
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010 Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/06/2010 Telephone: 301-415-7169
Date Made Active in Reports: 05/27/2010 Last EDR Contact: 06/13/2011
Number of Days to Update: 51 Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011 Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2011 Telephone: 202-343-9775
Date Made Active in Reports: 02/16/2011 Last EDR Contact: 07/12/2011
Number of Days to Update: 34 Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System
FINDS contains both facility information and ‘pointers’ to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010 Source: EPA
Date Data Arrived at EDR: 04/16/2010 Telephone: (415) 947-8000
Date Made Active in Reports: 05/27/2010 Last EDR Contact: 06/14/2011
Number of Days to Update: 41 Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Source: EPA
Date Data Arrived at EDR: 07/03/1995 Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995 Last EDR Contact: 06/02/2008
Number of Days to Update: 35 Next Scheduled EDR Contact: 09/01/2006
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009 Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011 Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011 Last EDR Contact: 05/27/2011
Number of Days to Update: 62 Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Biennially
CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989  Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994  Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994  Last EDR Contact: 05/31/1994
Number of Days to Update: 6  Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/15/2007  Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007  Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007  Last EDR Contact: 06/13/2011
Number of Days to Update: 9  Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/24/2011  Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/24/2011  Telephone: 916-445-9379
Date Made Active in Reports: 05/15/2011  Last EDR Contact: 05/24/2011
Number of Days to Update: 22  Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

CORTES: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

Date of Government Version: 07/01/2011  Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 07/01/2011  Telephone: 916-323-3400
Date Made Active in Reports: 07/15/2011  Last EDR Contact: 07/01/2011
Number of Days to Update: 14  Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

HIST CORTES: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES].

Date of Government Version: 04/01/2001  Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009  Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009  Last EDR Contact: 01/22/2009
Number of Days to Update: 76  Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993  Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993  Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993  Last EDR Contact: 09/27/2011
Number of Days to Update: 18  Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned
DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes:
power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries
and cleaning; drycleaning plants, except rugs; carpet and upholstery cleaning; industrial launderers; laundry and
garment services.

Date of Government Version: 09/15/2010
Date Data Arrived at EDR: 09/16/2010
Date Made Active in Reports: 09/29/2010
Number of Days to Update: 13

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Annually

WiP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year
by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately
350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain
some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/07/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 36

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 10/18/2010
Number of Days to Update: 19

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 05/30/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater
than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/21/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office
of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established
drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas,
Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/06/2011
Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/01/2011
Date Data Arrived at EDR: 06/21/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 24

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/21/2011
Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 06/06/2011
Date Data Arrived at EDR: 06/16/2011
Date Made Active in Reports: 07/15/2011
Number of Days to Update: 29

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 08/26/2011
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/14/2011
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/19/2011
Date Data Arrived at EDR: 04/19/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/19/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/09/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 9

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/03/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Quarterly

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.
Date of Government Version: 03/15/2011  
Source: California Integrated Waste Management Board  
Date Data Arrived at EDR: 03/16/2011  
Telephone: 916-341-6066  
Date Made Active in Reports: 04/26/2011  
Last EDR Contact: 05/23/2011  
Number of Days to Update: 41  
Next Scheduled EDR Contact: 09/05/2011  
Data Release Frequency: Varies

FINANCIAL ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance Information
Date of Government Version: 03/01/2007  
Source: Department of Toxic Substances Control  
Date Data Arrived at EDR: 06/11/2007  
Telephone: 916-255-3628  
Date Made Active in Reports: 06/29/2007  
Last EDR Contact: 05/05/2011  
Number of Days to Update: 28  
Next Scheduled EDR Contact: 08/15/2011  
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Date of Government Version: 12/31/2005  
Source: U.S. Geological Survey  
Date Data Arrived at EDR: 02/06/2006  
Telephone: 888-275-8747  
Date Made Active in Reports: 01/11/2007  
Last EDR Contact: 04/21/2011  
Number of Days to Update: 339  
Next Scheduled EDR Contact: 08/01/2011  
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008  
Source: Environmental Protection Agency  
Date Data Arrived at EDR: 02/12/2009  
Telephone: 202-566-0517  
Date Made Active in Reports: 05/29/2009  
Last EDR Contact: 05/05/2011  
Number of Days to Update: 100  
Next Scheduled EDR Contact: 08/15/2011  
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800’s to 1950’s to produce a gas that could be distributed and used as fuel. These plants used whale oil, resin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oil waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Source: EDR, Inc.  
Date Data Arrived at EDR: N/A  
Telephone: N/A  
Date Made Active in Reports: N/A  
Last EDR Contact: N/A  
Number of Days to Update: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned
# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COUNTY RECORDS

### ALAMEDA COUNTY:

**Contaminated Sites**
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and groundwater contamination from leaking petroleum USTs).

- **Date of Government Version:** 04/12/2011
- **Source:** Alameda County Environmental Health Services
- **Date Data Arrived at EDR:** 04/15/2011
- **Telephone:** 510-567-6700
- **Date Made Active in Reports:** 05/12/2011
- **Last EDR Contact:** 07/05/2011
- **Number of Days to Update:** 27
- **Next Scheduled EDR Contact:** 10/17/2011
- **Data Release Frequency:** Semi-Annually

**Underground Tanks**
Underground storage tank sites located in Alameda County.

- **Date of Government Version:** 04/12/2011
- **Source:** Alameda County Environmental Health Services
- **Date Data Arrived at EDR:** 04/15/2011
- **Telephone:** 510-567-6700
- **Date Made Active in Reports:** 05/18/2011
- **Last EDR Contact:** 07/05/2011
- **Number of Days to Update:** 33
- **Next Scheduled EDR Contact:** 10/17/2011
- **Data Release Frequency:** Semi-Annually

### BUTTE COUNTY:

**CUPA Facility Listing**
Cupa facility list.

- **Date of Government Version:** 03/29/2011
- **Date Data Arrived at EDR:** 04/20/2011
- **Date Made Active in Reports:** 05/17/2011
- **Number of Days to Update:** 27
- **Source:** Public Health Department
- **Telephone:** 530-538-7149
- **Last EDR Contact:** 03/03/2011
- **Next Scheduled EDR Contact:** 08/01/2011
- **Data Release Frequency:** Varies

### COLUSA COUNTY:

**CUPA Facility List**
Cupa facility list.

- **Date of Government Version:** 12/01/2010
- **Date Data Arrived at EDR:** 04/20/2011
- **Date Made Active in Reports:** 05/17/2011
- **Number of Days to Update:** 27
- **Source:** Health & Human Services
- **Telephone:** 530-458-0396
- **Last EDR Contact:** 03/03/2011
- **Next Scheduled EDR Contact:** 08/01/2011
- **Data Release Frequency:** Varies

### CONTRA COSTA COUNTY:

**Site List**
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

- **Date of Government Version:** 06/13/2011
- **Date Data Arrived at EDR:** 06/14/2011
- **Date Made Active in Reports:** 07/15/2011
- **Number of Days to Update:** 31
- **Source:** Contra Costa Health Services Department
- **Telephone:** 925-646-2286
- **Last EDR Contact:** 06/13/2011
- **Next Scheduled EDR Contact:** 08/22/2011
- **Data Release Frequency:** Semi-Annually

### EL DORADO COUNTY:
CUPA Facility List

CUPA facility list.

Date of Government Version: 03/28/2011
Date Data Arrived at EDR: 05/13/2011
Date Made Active in Reports: 06/15/2011
Number of Days to Update: 33
Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 03/28/2011
Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/15/2011
Date Data Arrived at EDR: 04/19/2011
Date Made Active in Reports: 05/12/2011
Number of Days to Update: 23
Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/18/2011
Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 02/06/2011
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21
Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 06/30/2011
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List

Cupac facility list.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/03/2011
Date Made Active in Reports: 03/24/2011
Number of Days to Update: 21
Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 09/13/2011
Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29
Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/16/2011
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Quarterly

KINGS COUNTY:
CUPA Facility List
A listing of sites included in the county’s Certified Unified Program Agency database, California’s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/09/2011   Source: Kings County Department of Public Health
Date Data Arrived at EDR: 06/09/2011   Telephone: 559-584-1411
Date Made Active in Reports: 07/08/2011   Last EDR Contact: 05/31/2011
Number of Days to Update: 29   Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

LOS ANGELES COUNTY:
San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009   Source: EPA Region 9
Date Data Arrived at EDR: 03/31/2009   Telephone: 415-972-3178
Date Made Active in Reports: 10/23/2009   Last EDR Contact: 03/28/2011
Number of Days to Update: 206   Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/31/2011   Source: Department of Public Works
Date Data Arrived at EDR: 06/09/2011   Telephone: 626-456-3517
Date Made Active in Reports: 06/15/2011   Last EDR Contact: 04/18/2011
Number of Days to Update: 6   Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/25/2011   Source: La County Department of Public Works
Date Data Arrived at EDR: 04/29/2011   Telephone: 818-458-5185
Date Made Active in Reports: 05/17/2011   Last EDR Contact: 04/25/2011
Number of Days to Update: 19   Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/06/2009   Source: Engineering & Construction Division
Date DataArrived at EDR: 03/10/2009   Telephone: 213-473-7869
Date Made Active in Reports: 04/08/2009   Last EDR Contact: 05/24/2011
Number of Days to Update: 29   Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 02/09/2011   Source: Community Health Services
Date Data Arrived at EDR: 02/09/2011   Telephone: 323-890-7806
Date Made Active in Reports: 03/04/2011   Last EDR Contact: 04/25/2011
Number of Days to Update: 23   Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Annually
City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 02/03/2011  Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 02/08/2011 Telephone: 310-524-2236
Date Made Active in Reports: 03/03/2011 Last EDR Contact: 04/25/2011
Number of Days to Update: 23 Next Scheduled EDR Contact: 08/08/2011
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003  Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 10/23/2003 Telephone: 562-570-2563
Date Made Active in Reports: 11/20/2003 Last EDR Contact: 05/02/2011
Number of Days to Update: 34 Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/18/2011  Source: City of Torrance Fire Department
Date Data Arrived at EDR: 04/20/2011 Telephone: 310-618-2973
Date Made Active in Reports: 05/18/2011 Last EDR Contact: 04/18/2011
Number of Days to Update: 28 Next Scheduled EDR Contact: 08/01/2011
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county’s Certified Unified Program Agency database. California’s Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/07/2011  Source: Madera County Environmental Health
Date Data Arrived at EDR: 06/09/2011 Telephone: 559-675-7823
Date Made Active in Reports: 07/06/2011 Last EDR Contact: 05/31/2011
Number of Days to Update: 30 Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 04/15/2011  Source: Public Works Department Waste Management
Date Data Arrived at EDR: 04/26/2011 Telephone: 415-499-6647
Date Made Active in Reports: 05/18/2011 Last EDR Contact: 07/11/2011
Number of Days to Update: 22 Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.
MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/20/2011  Source: Monterey County Health Department
Date Data Arrived at EDR: 03/03/2011  Telephone: 831-796-1297
Date Made Active in Reports: 03/24/2011  Last EDR Contact: 09/12/2011
Number of Days to Update: 21  Next Scheduled EDR Contact: 09/12/2011
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/09/2008  Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 07/09/2008  Telephone: 707-253-4269
Date Made Active in Reports: 07/31/2008  Last EDR Contact: 03/07/2011
Number of Days to Update: 22  Next Scheduled EDR Contact: 06/20/2011
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008  Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/16/2008  Telephone: 707-253-4269
Date Made Active in Reports: 02/04/2008  Last EDR Contact: 05/06/2011
Number of Days to Update: 23  Next Scheduled EDR Contact: 09/19/2011
Data Release Frequency: No Update Planned

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/02/2011  Source: Health Care Agency
Date Data Arrived at EDR: 05/20/2011  Telephone: 714-834-3446
Date Made Active in Reports: 05/15/2011  Last EDR Contact: 05/16/2011
Number of Days to Update: 26  Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/05/2011  Source: Health Care Agency
Date Data Arrived at EDR: 05/20/2011  Telephone: 714-834-3446
Date Made Active in Reports: 05/15/2011  Last EDR Contact: 05/16/2011
Number of Days to Update: 26  Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Quarterly
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/05/2011  
Source: Health Care Agency
Date Data Arrived at EDR: 05/17/2011  
Telephone: 714-834-3446
Date Made Active in Reports: 06/20/2011  
Last EDR Contact: 05/17/2011
Number of Days to Update: 34  
Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/20/2011  
Source: Placer County Health and Human Services
Date Data Arrived at EDR: 06/21/2011  
Telephone: 530-889-7312
Date Made Active in Reports: 07/08/2011  
Last EDR Contact: 06/13/2011
Number of Days to Update: 17  
Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/26/2011  
Source: Department of Environmental Health
Date Data Arrived at EDR: 04/28/2011  
Telephone: 951-358-5055
Date Made Active in Reports: 05/17/2011  
Last EDR Contact: 05/27/2011
Number of Days to Update: 19  
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/26/2011  
Source: Department of Environmental Health
Date Data Arrived at EDR: 04/28/2011  
Telephone: 951-358-5055
Date Made Active in Reports: 05/18/2011  
Last EDR Contact: 05/27/2011
Number of Days to Update: 20  
Next Scheduled EDR Contact: 10/10/2011
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/07/2011  
Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/28/2011  
Telephone: 916-875-8408
Date Made Active in Reports: 05/17/2011  
Last EDR Contact: 07/08/2011
Number of Days to Update: 19  
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/07/2011  
Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/29/2011  
Telephone: 916-875-8408
Date Made Active in Reports: 05/17/2011  
Last EDR Contact: 07/08/2011
Number of Days to Update: 18  
Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:
Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/holders.

Date of Government Version: 06/09/2011  Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 06/09/2011  Telephone: 909-387-3041
Date Made Active in Reports: 06/15/2011  Last EDR Contact: 05/16/2011
Number of Days to Update: 6  Next Scheduled EDR Contact: 08/29/2011
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date Data Arrived at EDR: 09/15/2010  Telephone: 619-338-2268
Date Made Active in Reports: 09/29/2010  Last EDR Contact: 09/26/2011
Number of Days to Update: 14  Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2010  Source: Department of Health Services
Date Data Arrived at EDR: 11/16/2010  Telephone: 619-338-2209
Date Made Active in Reports: 01/25/2011  Last EDR Contact: 05/02/2011
Number of Days to Update: 70  Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010  Source: San Diego County Department of Environmental Health
Date Data Arrived at EDR: 06/15/2010  Telephone: 619-338-2371
Date Made Active in Reports: 07/09/2010  Last EDR Contact: 09/14/2011
Number of Days to Update: 24  Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Ovessite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008  Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008  Last EDR Contact: 05/16/2011
Number of Days to Update: 10  Next Scheduled EDR Contact: 08/16/2011
Data Release Frequency: Quarterly
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

| Date of Government Version: 11/29/2010 | Source: Department of Public Health |
| Date Data Arrived at EDR: 03/10/2011 | Telephone: 415-252-3920 |
| Date Made Active in Reports: 03/15/2011 | Last EDR Contact: 05/31/2011 |
| Number of Days to Update: 5 | Next Scheduled EDR Contact: 08/29/2011 |
|                                       | Data Release Frequency: Quarterly |

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

| Date of Government Version: 06/27/2011 | Source: Environmental Health Department |
| Date Data Arrived at EDR: 06/29/2011 | Telephone: N/A |
| Date Made Active in Reports: 07/08/2011 | Last EDR Contact: 06/27/2011 |
| Number of Days to Update: 9 | Next Scheduled EDR Contact: 10/10/2011 |
|                              | Data Release Frequency: Semi-Annually |

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cup Facility List.

| Date of Government Version: 05/31/2011 | Source: San Luis Obispo County Public Health Department |
| Date Data Arrived at EDR: 05/31/2011 | Telephone: 805-781-5596 |
| Date Made Active in Reports: 07/08/2011 | Last EDR Contact: 05/31/2011 |
| Number of Days to Update: 38 | Next Scheduled EDR Contact: 09/12/2011 |
|                              | Data Release Frequency: Varies |

SAN MATEO COUNTY:

Business Inventory

List Includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

| Date of Government Version: 04/19/2011 | Source: San Mateo County Environmental Health Services Division |
| Date Data Arrived at EDR: 04/20/2011 | Telephone: 650-363-1921 |
| Date Made Active in Reports: 05/17/2011 | Last EDR Contact: 08/20/2011 |
| Number of Days to Update: 27 | Next Scheduled EDR Contact: 09/05/2011 |
|                              | Data Release Frequency: Annually |

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

| Date of Government Version: 06/20/2011 | Source: San Mateo County Environmental Health Services Division |
| Date Data Arrived at EDR: 06/21/2011 | Telephone: 650-363-1921 |
| Date Made Active in Reports: 07/15/2011 | Last EDR Contact: 08/20/2011 |
| Number of Days to Update: 24 | Next Scheduled EDR Contact: 09/05/2011 |
|                              | Data Release Frequency: Semi-Annually |

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.
### SANTA CLARA COUNTY:

**HIST LUST - Fuel Leak Site Activity Report**
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

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<tr>
<th>Date</th>
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<td>Santa Clara Valley Water District</td>
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**LOP Listing**
A listing of leaking underground storage tanks located in Santa Clara county.

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<th>Date</th>
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**Hazardous Material Facilities**
Hazardous material facilities, including underground storage tank sites.

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### SANTA CRUZ COUNTY:

**CUPA Facility List**
CUPA facility listing.

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### SHASTA COUNTY:

**CUPA Facility List**
Cup Facility List.

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### SOLANO COUNTY:
Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2011  Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 06/29/2011  Telephone: 707-784-6770
Date Made Active in Reports: 07/08/2011  Last EDR Contact: 06/20/2011
Number of Days to Update: 9  Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2011  Source: Solano County Department of Environmental Management
Date Data Arrived at EDR: 07/01/2011  Telephone: 707-784-6770
Date Made Active in Reports: 07/13/2011  Last EDR Contact: 09/05/2011
Number of Days to Update: 12  Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/05/2011  Source: Department of Health Services
Date Data Arrived at EDR: 04/06/2011  Telephone: 707-565-6565
Date Made Active in Reports: 05/12/2011  Last EDR Contact: 07/05/2011
Number of Days to Update: 36  Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/13/2011  Source: Sutter County Department of Agriculture
Date Data Arrived at EDR: 06/14/2011  Telephone: 530-622-7500
Date Made Active in Reports: 07/13/2011  Last EDR Contact: 05/13/2011
Number of Days to Update: 29  Next Scheduled EDR Contact: 09/26/2011
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 04/26/2011  Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 06/14/2011  Telephone: 805-654-2813
Date Made Active in Reports: 07/15/2011  Last EDR Contact: 05/24/2011
Number of Days to Update: 31  Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 04/01/2011  Source: Environmental Health Division
Date Data Arrived at EDR: 04/07/2011  Telephone: 805-654-2813
Date Made Active in Reports: 05/12/2011  Last EDR Contact: 07/08/2011
Number of Days to Update: 35  Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Annually
Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008  Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008  Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008  Last EDR Contact: 05/24/2011
Number of Days to Update: 37  Next Scheduled EDR Contact: 09/05/2011
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 04/26/2011  Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 05/03/2011  Telephone: 805-654-2813
Date Made Active in Reports: 06/15/2011  Last EDR Contact: 05/02/2011
Number of Days to Update: 43  Next Scheduled EDR Contact: 08/15/2011
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/25/2011  Source: Environmental Health Division
Date Data Arrived at EDR: 06/21/2011  Telephone: 805-654-2813
Date Made Active in Reports: 07/13/2011  Last EDR Contact: 08/21/2011
Number of Days to Update: 22  Next Scheduled EDR Contact: 10/03/2011
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 04/26/2011  Source: Yolo County Department of Health
Date Data Arrived at EDR: 05/03/2011  Telephone: 530-666-8646
Date Made Active in Reports: 06/20/2011  Last EDR Contact: 07/08/2011
Number of Days to Update: 48  Next Scheduled EDR Contact: 10/24/2011
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 12/31/2010  Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 05/12/2011  Telephone: 530-749-7523
Date Made Active in Reports: 06/15/2011  Last EDR Contact: 04/04/2011
Number of Days to Update: 34  Next Scheduled EDR Contact: 08/22/2011
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.
**CT MANIFEST:** Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

<table>
<thead>
<tr>
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**NJ MANIFEST:** Manifest Information

Hazardous waste manifest information.

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**NY MANIFEST:** Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

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**PA MANIFEST:** Manifest Information

Hazardous waste manifest information.

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**RI MANIFEST:** Manifest information

Hazardous waste manifest information.

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<tr>
<td>Date Data Arrived at EDR: 06/24/2011</td>
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**WI MANIFEST:** Manifest Information

Hazardous waste manifest information.

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<th>Date of Government Version: 12/31/2009</th>
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**Oil/Gas Pipelines:** This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

**Electric Power Transmission Line Data**

Source: Rexlog Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data
Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association’s annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6246
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics’ primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

STREET AND ADDRESS INFORMATION

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All Appropriate Inquiry-
Phase 1 Environmental Site Assessment

1990 & 2030 Burbank Ave, Santa Rosa, CA 95407
APN 125-421-018 and 125-421-019

Prepared for:
Burbank Housing Development Corporation
790 Sonoma Avenue
Santa Rosa, California 95403

Prepared by:
Harris & Lee Environmental Sciences, LLC

September 23, 2010
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List of Exhibits

Exhibit A – Vicinity Map
Exhibit B – Preliminary Title Report and Assessor's Parcel Map
Exhibit C – U.S.G.S 7.5-Minute Topographic Map Santa Rosa Quadrangle
Exhibit D – Site Photographs
Exhibit E – Historic Topographic and Aerial Photographs
Exhibit F – Environmental Data Resources Reports
Exhibit G – Regulatory Records Documentation
1.0 EXECUTIVE SUMMARY

Pursuant to the request and assignment of Burbank Housing Development Corporation, Harris & Lee Environmental Sciences, LLC has performed a Phase 1 Environmental Site Assessment on the property identified as 1990 & 2030 Burbank Ave, Santa Rosa, CA 95407, Sonoma County Assessor’s Parcel Number 125-421-018 and 019 (“Subject Property”), which is located in the unincorporated areas of Sonoma County, California.

The purpose of this All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation is to provide information as to the Recognized Environmental Conditions on or near the Subject Property noted above. Recognized Environmental Conditions are defined with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. This Environmental Site Assessment follows the guidelines established by the American Society for Testing and Materials (ASTM) in the document entitled “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process” and designated E 1527-05. As such, this assessment is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser protection as noted in CERCLA and the California Health and Safety Code; that is the “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice as defined at 42 U.S. C. 9601(35)(B).

The Scope of Service for this Phase I Environmental Site Assessment consists of four overall tasks:

Task I: Research and review of regulatory information
Task II: A site reconnaissance of subject and nearby property
Task III: Interviews of persons with knowledge of subject and surrounding property
Task IV: Preparation of the final Environmental Site Assessment report

Site Description and Current Use
The Subject Property is an approximately rectangular parcel of real estate composed of two assessor parcel numbers located southwest of Santa Rosa, California. The property is approximately 5 acres in area. There are no structures on the property. The site was once planted with an orchard which was removed some time between 1965 and 1982. Since then the property has been undeveloped and covered by annual grasses, weeds, and several oak trees. Much of this vegetation was dry due to the time of year.

Adjoining Properties Use
- North: Rural residential
- East: Residential and public school
- South: Rural residential
- West: Rural residential
Standard and Additional Environmental Records Search
The EDR report (attached to this document as a component of Exhibit F) did identify one site of concern which is classified as a Recognized Environmental Condition.

Physical Setting
The elevation of the Subject Property is at 125 feet above sea level with the general topographic gradient towards the west-southwest. Soils consist of generally poorly drained soils with slow infiltration rates. The predominant regional groundwater flow direction is probably west-southwest towards Laguna de Santa Rosa with some variations. Laguna de Santa Rosa is about 4.5 miles to the west of the Subject Property. The property is outside the 500-year and 100-year flood zones.

Historical and Present Use of Subject Property
Historically the property appears to have been used for low impact agricultural uses in the form of orchards and pasture.

Recognized Environmental Conditions
One Recognized Environmental Condition relative to the Subject Site was identified. It is the New Roseland Area Elementary School at 2611 Dutton Meadow located approximately 972 feet north-northwest of the Subject Site. The potential contaminants are heavy metals and polynuclear aromatic hydrocarbons. Surface sediments and surface water are being investigated, however the contamination is not defined and the investigation is not complete.

Historical Recognized Environmental Conditions
No Historic Recognized Environmental Conditions were identified in connection with the Subject Property.

De Minimis Conditions and Data Gaps
No de minimis conditions or data gaps were identified in connection with the Subject Property.

Conclusions
Harris & Lee Environmental Sciences, LLC has performed an All Appropriate Inquires-Phase 1 Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E-1527-05 of the property within the designated as Sonoma County Assessor’s Parcel Number 125-421-018 and 019 with the physical address of 1990 & 2030 Burbank Ave, Santa Rosa, CA 95407.

In the course of performing this All Appropriate Inquiry-Environmental Site Assessment, Phase 1 Investigation evidence of one Recognized Environmental Condition was identified relative to the Subject Property.

This report is governed by the Limitations set forth in Sections 2.4 and 2.5 of this report. This Executive Summary is not to be used without the accompaniment of the entire report.
2.0 INTRODUCTION

2.1 Purpose

Pursuant to the request and assignment of Burbank Housing Development Corporation, Harris & Lee Environmental Sciences, LLC has performed a Phase 1 Environmental Site Assessment on the property identified as 1990 & 2030 Burbank Ave, Santa Rosa, CA 95407, Sonoma County Assessor’s Parcel Number 125-421-018 and 019 (“Subject Property”), which is located in the unincorporated areas of Sonoma County, California.

The purpose of this All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation is to provide information as to the Recognized Environmental Conditions on or near the Subject Property noted above. Recognized Environmental Conditions are defined with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. This Environmental Site Assessment follows the guidelines established by the American Society for Testing and Materials (ASTM) in the document entitled “Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process” and designated E-1527-05. As such, this assessment is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser protection as noted in CERCLA and the California Health and Safety Code; that is the “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice as defined at 42 U.S. C. 9601(35)(B).

Recognized Environmental Conditions are defined as:

“The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions.” (ASTM E 1527-05, § 1.1.1 and § 3.2.74)

Pursuant to the ASTM E-1527-05 Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process, Recognized Environmental Conditions do not include Controlled Substances, Asbestos Containing Materials or Lead-base paint or other non-CERCLA related conditions (i.e., regulatory compliance, wetlands, indoor air quality, vapor intrusion, etc.).
2.2 Scope of Services

The Scope of Services for this All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation consists of four overall tasks:

**Task I:** Research and review of regulatory information
**Task II:** A site reconnaissance of subject and nearby properties
**Task III:** Interviews of persons with knowledge of subject and surrounding property
**Task IV:** Preparation of the final Environmental Site Assessment report

The Scope of Services for this All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation follows the Standard Practice for Environmental Site Assessments designated as E-1527-05 of the ASTM. Accordingly, the All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation is targeted towards the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice” as defined in 42 USC 9601(35)(B) is applied. However, an evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this assessment.

The Scope of Services includes observations for Recognized Environmental Conditions, as well as information that can be obtained from regulatory files that are obtainable without investigation into archives of the various agencies. Accordingly, it cannot be guaranteed that all files are examined or that every contingency is investigated. These limitations are in conformance with the stated guidelines of ASTM E 1527-05 § 8.1.4.1, § 8.1.4.2 and § 8.1.4.3.

The Records Review includes files available at state, county and local offices listed in Section 5.2 of this report. In some cases the status of a site is determined from telephone interviews of staff persons of these offices. The site reconnaissance consists of the Subject Property and the identification of nearby properties. Interviews are conducted of persons reasonably available at the time of the site reconnaissance, and on occasion, by telephone when such interviews are possible. The report follows the Standard Practice of ASTM E-1527-05.

The Scope of Services for this All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation does not include analysis of Controlled Substances (CS) or Asbestos Containing Materials (ACM), although if obvious visual indications of CS or ACM are observed, they are reported. Neither does the Scope of Services include analysis of the building constituents for Lead based paint or other non-CERCLA related conditions (i.e., regulatory compliance, wetlands, indoor air quality, etc.). If there is suspicion that these substances or conditions may be present, professionals licensed to
assess their presence should be contacted. Harris & Lee Environmental Sciences, LLC can supply references for such professionals, if requested.

2.3 Significant Assumptions

The All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation is intended to assess the environmental conditions of a specific parcel of commercial real estate. It is intended to constitute all appropriate inquiry for purposes of the CERCLA liability, i.e., innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on CERCLA liability. This Phase 1 is intended to reflect a commercially prudent and reasonable inquiry designed to recognized environmental conditions in connection with a property.

2.4 Limitations and Exceptions

The Scope of Services performed to complete this All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation was limited in nature. While we consider work of this type to be valuable in the preliminary evaluation of potential hazardous materials or waste at the site, we also must alert the Client that this study may not reveal hazardous materials releases that have occurred. Also, the site conditions can change with time, and our assessment was not intended to predict future site conditions. Because of the limited nature of this assessment, this report is not a risk assessment and the Scope of Services does not include a determination of the extent of business environmental risk nor the public health impact of, known or suspected hazardous materials or wastes. This assessment does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the innocent landowner, contiguous property owner or bona fide prospective purchaser limitations on liability protections under CERCLA. Furthermore, this assessment does not address requirements of state or local laws or federal laws other than the all appropriate inquiry provisions of the landowner liability protections. Client(s) are cautioned that federal, state and local laws may impose environmental assessment obligations that are beyond the scope of the all appropriate inquiry provisions of this assessment.

This service has been performed in accordance with generally accepted environmental investigation practices for similar investigations conducted at this time and in this geographic area. No other guarantees or warranties, expressed or implied are provided.

It is understood by the parties hereto that the Client who has requested this assessment will use the assessment (in addition to other information) to provide information to a lender, investors in the property, for the purposes of refinancing or purchasing said property or to satisfy regulatory agency requirements. Consultant intends no other use or disclosure. Client agrees to hold Consultant harmless for any inverse condemnation or devaluation of said property that may result if the Consultant’s report or information
generated is used for other purposes. Also, this report is issued with the understanding that it is to be used only in its entirety.

2.5 User Reliance

Only Burbank Housing Development Corporation and the financing institution providing financing for the purchase and redevelopment of the property, and any pertinent regulatory agencies may rely upon this report. No other person or entity may rely upon the report without written consent of Harris & Lee Environmental Sciences, LLC.

2.6 Involved Parties

Burbank Housing Development Corporation, the listed current owner of the property identified as Sonoma County Assessor’s Parcel Number 125-421-018 and 125-421-019, who retained Harris & Lee Environmental Sciences, LLC to conduct this All Appropriate Inquiry, Environmental Site Assessment, Phase 1 Investigation are the parties involved in this proposed transaction.

3.0 SITE DESCRIPTION

3.1 Site Locations and Description

Exhibit A is a vicinity map of the general area of the Subject Property. Exhibit B presents an Assessor’s Parcel Map for the Subject Property having Sonoma County Assessor’s Parcel Number 125-421-018 and 125-421-019. The legal description of the Subject Property may be found in the title report, which is not included in this report.

Using the Earth’s Grid System, the coordinates of the Subject Property location are:

- Latitude (North): N 38.41840° - 38° 25' 6.2"
- Longitude (West): W 122.7327° - 122° 43' 57.7"’
- Elevation: 125 feet above sea level

3.2 Site and Vicinity General Characteristics

The Subject Property is located in the unincorporated area of Sonoma County, just outside the City Limits of Santa Rosa and in the southwest quadrant of Santa Rosa. It is approximately 4,600 feet to the east of U. S. Highway 101 and approximately 1,500 feet north of Hearn Avenue. The general characteristic of the property’s vicinity is rural residential with the newer denser developments becoming increasingly common as Santa Rosa grows.

The Subject Property’s zoning designation is DA-B6, 4, VOH. RR stands for Rural Residential District. B combining district specifies the density. VOH stands for Valley Oak Habitat.
3.3 **Current Use of the Property**

Current use of the Subject Property is listed as vacant land.

3.4 **Descriptions of Current Improvements**

3.4.1 **Structures**

No structures exist on the Subject Site.

3.4.2 **Roads**

The Subject Property is bounded by Burbank Avenue to the west which is a paved Sonoma County road that serves as the property access.

3.4.3 **Sewage Disposal**

Municipal sewage services are potentially available to the Subject Property.

3.4.4 **Water Supply**

Municipal water services are potentially available to the Subject Property.

3.4.5 **Heating and cooling systems**

Not applicable.

3.4.6 **Utilities**

Pacific Gas and Electric Company electricity and gas service is available to the Subject Property.

3.5 **Commonly Known or Reasonably Ascertainable Information**

According to the 40 CFR 312.10, “adjoining properties are defined as any real property or properties the border of which is (are) shared in part or in whole with that of the Subject Property, or that would be shared in part or in whole with that of the Subject Property but for a street, road, or other public thoroughfare separating the properties.” Taking this definition into account, Table 3.5 lists the commonly known or reasonably ascertainable information about the subject properties and the adjoining properties; street boundaries are also identified.
Table 3.5: Commonly Known or Reasonably Ascertainable Information concerning the Subject and Adjoining Properties

<table>
<thead>
<tr>
<th>Direction</th>
<th>APN</th>
<th>Address</th>
<th>Recorded Owner</th>
<th>Size (Acres)</th>
<th>Structure Year</th>
<th>Sq. ft. story</th>
<th>Use</th>
<th>Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject Site</td>
<td>125-421-018</td>
<td>2030 Burbank Ave</td>
<td>Burbank Housing Dev Corp</td>
<td>2.5</td>
<td>Vacant</td>
<td>Vacant</td>
<td>RR B6 4 VOH</td>
<td></td>
</tr>
<tr>
<td>Subject Site</td>
<td>125-421-019</td>
<td>1990 Burbank Ave</td>
<td>Burbank Housing Dev Corp</td>
<td>2.5</td>
<td>Vacant</td>
<td>Vacant</td>
<td>RR B6 4 VOH</td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>125-421-003</td>
<td>1870 Burbank Ave</td>
<td>Walter D Murphy III</td>
<td>1.25</td>
<td>Dwelling</td>
<td>1949</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,484</td>
<td>1 story</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>125-421-021</td>
<td>1850 Burbank Ave</td>
<td>Ramiro R Ortiz</td>
<td>0.37</td>
<td>Dwelling</td>
<td>1946</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,814</td>
<td>2 story</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>125-421-020</td>
<td>1840 Burbank Ave</td>
<td>Teanna &amp; William Boriolo</td>
<td>0.82</td>
<td>Dwelling</td>
<td>1990</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,656</td>
<td>1 story</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East</td>
<td>125-432-001</td>
<td>820 Liana Dr</td>
<td>Jason P. Smith</td>
<td>0.13</td>
<td>Dwelling</td>
<td>1974</td>
<td>Residential</td>
<td>R1 B6 5 DU</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,348</td>
<td>1 story</td>
<td></td>
<td>VOH</td>
</tr>
<tr>
<td>East</td>
<td>125-431-022</td>
<td>1935 Biwama Dr</td>
<td>Burbank Housing Dev Corp</td>
<td>0.22</td>
<td>Dwelling</td>
<td>1959</td>
<td>Residential</td>
<td>R1 B6 5 DU</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>952</td>
<td>1 story</td>
<td></td>
<td>VOH</td>
</tr>
<tr>
<td>East</td>
<td>125-431-023</td>
<td>1777 West Ave</td>
<td>Roseland School District</td>
<td>11.72</td>
<td>School</td>
<td>1960</td>
<td>Public school</td>
<td>PF VOH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>24,846</td>
<td>1 story</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>125-421-014</td>
<td>2050 Burbank Ave</td>
<td>Paul &amp; Judith Pesce</td>
<td>0.69</td>
<td>Dwelling</td>
<td>1942</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>792</td>
<td>1 story</td>
<td></td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>125-421-013</td>
<td>830 Liana Dr</td>
<td>Donald &amp; Mary Cook</td>
<td>0.94</td>
<td>Dwelling</td>
<td>1987</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,247</td>
<td>1 story</td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>125-471-014</td>
<td>1967 Burbank Ave</td>
<td>Ismael Soto Lugo</td>
<td>0.80</td>
<td>Duplex</td>
<td>1917</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,358</td>
<td>2 story</td>
<td></td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>125-411-005</td>
<td>1851 Burbank Ave</td>
<td>Louie &amp; Shirley Aviles</td>
<td>2.08</td>
<td>Dwelling</td>
<td>1967</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2,085</td>
<td>1 story</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direction</td>
<td>APN</td>
<td>Address</td>
<td>Recorded Owner</td>
<td>Size (Acres)</td>
<td>Structure Year Sq. ft. story</td>
<td>Use</td>
<td>Zone</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>-----------------</td>
<td>----------------------</td>
<td>--------------</td>
<td>------------------------------</td>
<td>------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>125-411-006</td>
<td>1845 Burbank Ave</td>
<td>Richard &amp; Lorraine Papp</td>
<td>0.79</td>
<td>Dwelling 1952 1,029 1 story</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>125-411-007</td>
<td>1815 Burbank Ave</td>
<td>Sandy &amp; Cynthia Burress</td>
<td>4.35</td>
<td>Dwelling 1950 2,078 1 story</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>125-411-008</td>
<td>1811 Burbank Ave</td>
<td>Beverly J Buras</td>
<td>0.48</td>
<td>Dwelling 1966 1,224 1 story</td>
<td>Residential</td>
<td>RR B6 4 VOH</td>
<td></td>
</tr>
</tbody>
</table>

Information was obtained from RealQuest.com and County of Sonoma.

**Base Zoning Districts for Sonoma County:**
- (RR) - Rural Residential
- (R1) - Low Density Residential
- (R2) - Medium Density Residential
- (R3) - High Density Residential
- (PF) - Public Facilities

**Combining Zoning Districts for Sonoma County:**
- (B) - B Combining
- (VOH) - Valley Oak Habitat

### 4.0 USER PROVIDED INFORMATION

The purpose of this section is to identify general tasks that will help identify the possibility of recognized environmental conditions in connection with the Subject Property. The general tasks are 1) Searches for Environmental Liens; 2) Valuation Reduction for Environmental Issues; and 3) Assessments of Specialized Knowledge. These tasks do not require technical expertise and Environmental Professionals do not normally perform these tasks. These tasks are the responsibility of the client. However, the results of these tasks must be made available for the Environmental Professionals to review; if none are provided they will be identified as “data gaps”. The Environmental Professional(s) are required to review these items in order to formulate an opinion regarding the obviousness of the presence or likely presence of contamination at the property or identify them as missing “data gaps.”

### 4.1 Searches for Environmental Liens

Searches for environmental cleanup liens against the Subject Property that are filed or recorded under federal, tribal, state or local law as required under 40 CFR Part 312 Section 312.25.

40 CFR Part 312 Section 312.25(b) states: “All information collected regarding the existence of such environmental cleanup liens associated with the property must be provided to the environmental professional.”
Preliminary Title Report

The preliminary title report did not identify any environmental liens in connection with the Subject Property.

4.2 Valuation Reduction for Environmental Issues

An assessment of the relationship of the purchase price to the fair market value of the Subject Property, assuming there is no contamination of the property, is required under 40 CFR Part 312 Section 312.29 to maintain the innocent landowner defense. The sections from the federal document are reproduced (with edits for clarity) following:

(a) Persons to whom this part is applicable must consider whether the purchase price of the Subject Property reasonably reflects the fair market value of the property, assuming there is no contamination of the property;

(b) Persons who conclude that the purchase price of the Subject Property does not reasonably reflect the fair market value of that property, if the property were not contaminated, should consider whether or not the differential in purchase price and fair market value is due to the presence of releases or threatened releases of hazardous substances.

An appraisal of the Subject Property was not available for review; however, anecdotal information gained during interviews indicates that there is no value reduction for environmental reasons. The Burbank Housing Development Corporation has own this property for approximately eight years.

4.3 Assessments of Specialized Knowledge

Assessments of any specialized knowledge or experience on the part of the purchaser or landowner is required by 40 CFR Part 312 Section 312.28 to maintain the innocent landowner defense. The sections from the federal document are reproduced (with edits for clarity) following:

(a) Persons to whom this part is applicable must take into account, their specialized knowledge of the Subject Property, the area surrounding the Subject Property, the conditions of adjoining properties, and any other experience relevant to the inquiry, for the purpose of identifying conditions indicative of releases or threatened releases at the Subject Property.
(b) All appropriate inquiries are not complete unless the results of the inquiries take into account the relevant and applicable specialized knowledge and experience of the persons responsible for undertaking the inquiry.

Specialized knowledge relating to the Subject Property was obtained via interviews of persons with knowledge of the status and history of the property.

5.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the Subject Property. This is one of the Criteria required under the All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation.

5.1 Standard and Additional Environmental Record Sources

The Standard Environmental Record Sources and the Additional Environmental Record Sources were obtained through a computer data bank search company, Environmental Data Resources, Inc. of Southport, Connecticut. Computer data bank searches for active sites can be useful in locating sites that may have the potential to adversely impact the subject site. It is important to keep in mind that computer database searches provide general overview data and may not be precise in the data that is presented. Consequently, an investigator needs additional familiarity with active sites to properly interpret the data that is provided.

The Environmental Data Resources (EDR) Report is dated September 3, 2010 with Inquiry Number: 2861935.2s. It is included in Exhibit F. This report accessed a large number of active federal, state and local databases—some are Standard Environmental Record Sources (Section 8.2.1 ASTM E-1527-05) and others are Additional Environmental Record Sources that provide additional data and supplement the Standard Environmental Record Sources. A comprehensive listing of government records searched is listed in the EDR Report and is not repeated in the text.

EDR Database Search

**Subject Property:** The Subject Property does not appear on any standard record sources or any additional environmental record sources searched and reported upon by EDR.

**Neighboring Properties:** Summary of relevant findings of the EDR database search within the minimum radius search distance of the property as specified by ASTM E-1527-05, Section 8.2.1 are summarized in the Table below.
### U.S. Federal Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>ASTM Criteria Search Distance (miles)</th>
<th>Number of Properties within the Search Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPL</td>
<td>1.0</td>
<td>0</td>
</tr>
<tr>
<td>Delisted NPL</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>CERCLIS</td>
<td>0.5</td>
<td>1</td>
</tr>
<tr>
<td>CERCLIS NFRAP</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>RCRA CORRACTS facilities</td>
<td>1.0</td>
<td>0</td>
</tr>
<tr>
<td>RCRA non-CORRACTS TSD facilities</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>Generators list: RCRA_LQG</td>
<td>Property; adjoining property</td>
<td>0</td>
</tr>
<tr>
<td>Generators list: RCRA_SQG</td>
<td>Property; adjoining property</td>
<td>0</td>
</tr>
<tr>
<td>Federal Institutional / Engineering Control</td>
<td>Property</td>
<td>0</td>
</tr>
<tr>
<td>Federal ERNS List</td>
<td>Property</td>
<td>0</td>
</tr>
</tbody>
</table>

### State, Tribal and Local Databases

<table>
<thead>
<tr>
<th>Database</th>
<th>ASTM (miles)</th>
<th>Search Distance</th>
<th>Properties within the Search Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIROSTOR</td>
<td>1.0</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>SLIC</td>
<td>0.5</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>LUST</td>
<td>0.5</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>SWF/LS</td>
<td>0.5</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>AST</td>
<td>Property; adjoining property</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>UST</td>
<td>Property; adjoining property</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Notify 65</td>
<td>Property; adjoining property</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Old Databases</td>
<td>Property; adjoining property</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Note 1:** The following databases are part of Envirostor under DTSC; they are not listed individually: Cal-Sites (State equivalent to NPL is AWP, BE). Hist. Cal-Sites, Response, Institutional & Engineering Controls, VCP and Brownfield sites.

**Note 2:** The following databases are discussed only if the listed sites are on the property or on adjoining properties: UST, AST, and Notify 65.

**Note 3:** The following databases are old and are not updated; unless the sites listed are on the Subject Property or adjoining properties, they are not discussed; the databases include: Cortese; CA FID; HIST UST; & SWEEPS.

### Discussion of ASTM Database Search

The Environmental Data Resources, Inc. (EDR) Report is attached to this report. The relevant summary of those sites in the EDR report pertinent for the Subject Property is discussed below. Sites not mentioned are judged insignificant for the Subject Property. In some cases, rather than engage in an exhaustive discussion of the various sites, these are grouped together in a summary discussion.

### Surrounding Properties

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either
proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 01/29/2010 reveals that there is 1 CERCLIS site within approximately 0.5 mile of the target property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>West Avenue Mercury</td>
<td>1363 West Avenue NE</td>
<td>2,234 ft</td>
<td>Removal Only</td>
</tr>
</tbody>
</table>

**SLIC**: This database is considered a California State ASTM supplemental database. SLIC stands for Spills, Leaks, Investigations and Cleanups database. The SLIC program is designed to protect and restore water quality from spills, leaks, and similar discharges. The SLIC program has several components at the North Coast Regional Water Quality Control Board: (1) complaint response, (2) non-permitted discharge investigations, (3) site cleanups under the oversight of the Water Board, (4) site cleanups pursuant to methods analogous to procedures in the Resource Conservation and Recovery Act, and (5) cleanups performed by redevelopment agencies. In some cases, the Regional Water Board oversight costs are recovered from responsible parties.

A review of the SLIC list, as provided by EDR, and dated 02/05/2010 reveals that there is 2 SLIC sites within approximately 0.5 mile of the target property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dutton &amp; Associates</td>
<td>1850 Burbank Ave WNW</td>
<td>487 ft</td>
<td>Closed</td>
</tr>
<tr>
<td>Dutton &amp; Associates</td>
<td>1800 Burbank Ave NW</td>
<td>565 ft</td>
<td>Closed</td>
</tr>
</tbody>
</table>

**ENVIROSTOR**: The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.
A review of the ENVIROSTOR list, as provided by EDR, and dated 08/09/2010 reveals that there are 12 ENVIROSTOR sites within approximately 1 mile of the target property.

<table>
<thead>
<tr>
<th>Site</th>
<th>Address</th>
<th>Distance</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fouche Bros</td>
<td>2290 Dutton Ave</td>
<td>2692 ft. ESE</td>
<td>RWQCB</td>
</tr>
<tr>
<td>McMinn Avenue</td>
<td>841 McMinn Ave</td>
<td>3521 ft. N</td>
<td>RWQCB</td>
</tr>
<tr>
<td>Wescott's Auto &amp; Truck Parts</td>
<td>1569 Sebastopol Rd</td>
<td>3656 ft. NNW</td>
<td>RWQCB</td>
</tr>
<tr>
<td>Aalmetco</td>
<td>1733 Sebastopol Rd</td>
<td>3728 ft. NNW</td>
<td>RWQCB</td>
</tr>
<tr>
<td>Acme Auto Wreckers Inc</td>
<td>1885 Sebastopol Rd</td>
<td>3828 ft. NW</td>
<td>RWQCB</td>
</tr>
<tr>
<td>S W Brown</td>
<td>1175 Sebastopol Rd</td>
<td>3860 ft. N</td>
<td>RWQCB</td>
</tr>
<tr>
<td>Coast Auto Wrecking</td>
<td>949 Sebastopol Rd</td>
<td>4016 ft. N</td>
<td>RWQCB</td>
</tr>
<tr>
<td>Santa Rosa Circuits</td>
<td>35 / 48 W Barham Ave</td>
<td>4705 ft. NE</td>
<td>RWQCB</td>
</tr>
<tr>
<td>Santa Rosa Plating Works</td>
<td>80 Barham Ave</td>
<td>4849 ft. NE</td>
<td>No Fur Act</td>
</tr>
<tr>
<td>New Roseland Area</td>
<td>1683 Burbank Ave</td>
<td>972 ft. NNW</td>
<td>Active</td>
</tr>
<tr>
<td>Elementary School</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meadow View Elem School</td>
<td>2611 Dutton Meadow</td>
<td>2154 ft. SSE</td>
<td>Active</td>
</tr>
<tr>
<td>Redwood Chemical</td>
<td>2450 Stoney Point Rd</td>
<td>2714 ft. SW</td>
<td>Local Agency</td>
</tr>
</tbody>
</table>

Summary
Most of the sites listed are not considered likely environmental risks to the Subject Property due to one or more of the following factors: status of case, distance from Subject Property, groundwater flow relative to Subject Property or the well defined nature of contaminant plume. Most of the sites listed above are cross gradient.

The sites with potential for environmental impact to the Subject Property are discussed below.

New Roseland Area Elementary School at 2611 Dutton Meadow is the closest concern to the Subject Site located at 972 feet north-northwest. It is listed in the State of California databases as Roseland Creek at Burbank Avenue. The Global ID is SL0609756518. The potential contaminants are heavy metals and polynuclear aromatic hydrocarbons. This contamination was discovered in Roseland Creek during a Phase II investigation prepared as part of the development of a nearby school. The contamination is suspected to be through storm water run-off. Surface sediments and surface water are being investigated, however the contamination is not defined and the investigation is not complete. Presently this constitutes a Recognized Environmental Condition relative to the Subject Site.

The McMinn Avenue State Superfund Area is listed above using 841 McMinn Ave as its address. It is comprised of many separate active sites and Responsible Parties. Determinations of Recognized Environmental Conditions are addressed through the individual sites that constituted the McMinn Avenue State Superfund Area. The Global ID recorded in the State of California Geotracker database is T0609793565. This study area is also included in the Envirostor database administered by the Department of
Toxic Substances Control. The following is an extract from the Envirostor database that provides a history and scope of the contamination.

"Between 1981 and 1985, the Regional Water Quality Control Board, North Coast Region (RWQCB) and the Sonoma County Public Health Department (SCHPHD) sampled private water supply wells in the Roseland Area, which is located in and adjacent to southwest Santa Rosa. This sampling was initially prompted by residents reporting the taste and odor of gasoline and diesel in water from their wells. Some of the sampled wells were found to be contaminated with gasoline, diesel, and chlorinated solvents.

"The Department of Health Services, Toxic Substances Control Division (now the Department of Toxic Substances Control [DTSC]) began investigations in 1986 using State funding and State contractors because little was known about the nature and extent of contamination and the sources of contamination were not known. The Preliminary Site Assessment and Investigation (PSAI) Workplan, the first investigation workplan that was prepared using State funds, designated the area within a 2000-foot radius around the intersection of McMinn Avenue and Sebastopol Road as the Local Study Area in order to provide a focus for the investigation. One of the private water supply wells, in which gasoline and diesel was initially discovered, was located near this intersection. During the PSAI, 38 private water supply wells were sampled, existing well sampling data was assembled, and facilities with underground storage tanks and facilities which used, stored, or disposed hazardous materials were identified. DTSC conducted additional investigation activities from 1987 through 1989 that included soil gas sampling and installing and sampling 12 groundwater monitoring wells. After 1989, DTSC conducted only limited work using State funds, which included sampling and closing some of the 12 monitoring wells.

"RWQCB and SCPHD were overseeing some investigation and cleanup activities on properties with underground storage tanks when DTSC began its State-funded investigation activities in 1986. The nature, extent, and sources of contamination were better defined as more investigations were conducted and the Local Study Area designation was no longer used. In 1994, DTSC transferred responsibility to RWQCB as lead agency for the McMinn Avenue Site. DTSC had requested that RWQCB assume this responsibility because much of the contamination was petroleum hydrocarbons, which RWQCB has more extensive regulatory authority to address. RWQCB was providing oversight of investigation and cleanup activities at more than 30 properties at the time DTSC transferred responsibility as lead agency. Most of these properties were in the area along Sebastopol Road between Stony Point Road and Dutton Avenue. The McMinn Avenue Site is no longer being addressed by DTSC as a State “Superfund” site, and is being addressed through individual property investigations and cleanup activities that are being overseen by RWQCB. More information on these individual sites can be found on the State Water Resources Control Board’s GeoTracker database.
The Subject Site is approximately 3700 feet from the intersection of McMinn Ave and Sebastopol Road and is outside the original study area defined by a 2000 foot radius around this street intersection. Therefore the McMinn Avenue State Superfund Area is not a Recognized Environmental Condition relative to the Subject Property and is unlikely to be an environmental concern.

**Redwood Chemical at 2450 Stoney Point Road** is located approximately 2714 southwest of the Subject Site. The Global ID is 49280008. Reported contaminants from 1930 to 1967 are muriatic acid and sodium hydroxide. From 1963 to 1989 contaminants used were sodium hypochlorite, sodium bisulfate, chlorine, and ammonium. All of these materials should evaporate and leach away with storm water. In 2008 the Department of Toxic Substances Control issued a report stating that the site does not pose an immediate threat or require removal. This site is substantially down slope and down gradient from the Subject Site and does not pose and environmental liability.

Therefore, there is only one Recognized Environmental Condition relative to the Subject Site. It is the New Roseland Area Elementary School at 2611 Dutton Meadow located approximately 972 feet north-northwest of the Subject Site.

### 5.2 Other Environmental Record Sources

To enhance and supplement the Environmental Data Resources report data bank searches for active sites, local records and / or additional state or tribal records were independently searched through their various websites. These records are reasonably ascertainable, and are sufficiently useful, accurate and complete in light of the objective of the records review. Other Environmental Record Sources contacted for information pertaining to the subject and nearby properties were as follows:

- U.S. EPA ([http://www.epa.gov/region09/](http://www.epa.gov/region09/))
- County of Sonoma — all departments ([http://www.sonoma-county.org/](http://www.sonoma-county.org/))
- California State Water Resources Control Board ([http://geotracker.swrcb.ca.gov/](http://geotracker.swrcb.ca.gov/))

**Unified Program**

**Sonoma County Department of Emergency Services.**

The Unified Program is the consolidation of six state environmental programs into one program under the authority of a Certified Unified Program Agency. These can be a county, city or JPA (Joint Powers Authority). This program was established under the amendments to the California Health and Safety Code made by SB 1082 in 1994.

A CUPA, or Certified Unified Program Agency is a local agency that has been certified by Cal EPA to implement the six state environmental programs within the local agency's jurisdiction. The Sonoma Department Office of Emergency Services is the designated local agency for the Subject Property. No records are available for the Subject Property.

5.3 Physical Setting

5.3.1 Regional Physiographic Conditions

Topographic Map
Exhibit C is the U. S. Department of Interior, Geological Survey, Santa Rosa Quadrangle 7.5-Minute Series topographic map. The topographic gradient at the Subject Property is generally west-southwest. Surface topography may be indicative of the direction of surface water flow.

The Santa Rosa Valley, or Santa Rosa Plain, approximately coincides with the Santa Rosa Groundwater Basin described below. The valley floor is approximately one mile wide just south of Healdsburg, as wide as 7 to 9 miles wide in the Santa Rosa area, and extends south of the City of Cotati. It is a structural valley with a flat mildly undulating alluvial valley floor. Generally the slopes within a one mile radius are less than 2%.

Elevation profiles in the north-south and east-west directions are included on page A-2 of the EDR Radius Report that is attached as a component of Exhibit F of this report.

Surface Waters
The Subject Site is located in southwest Santa Rosa in an established residential district. Urban development, a railroad grade, farming in the area, and a range of streets interrupt the normal drainage. There is no urban designed storm drain system along the streets in this area which might substitute for the former natural drainage. Surface water is likely to sheet flow to the properties to the south and to Burbank Ave. Burbank Ave has a road side ditch which may conduct water to the south. An informal array of ditches and culverts conducts storm water to Hearn Ave and from there to the Laguna de Santa Rosa which is the primary drainage for the Santa Rosa area. These ditches are flat and difficult to follow. The County of Sonoma declared the area to be a flood prone urban area and placed additional drainage requirements during the 1980’s.

Flood Insurance Rate Map
Based on the Flood Insurance Rate Map DFIRM Panel # 06097C published by the Federal Emergency Management Agency as cited in the attached EDR Radius Report,
the subject property is not within the 100-year flood zone, nor is it within the 500 year flood zone.

5.3.2 Soil Conditions

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data. The soil series listed below are in the order listed in the attached EDR Radius Report, but are also in approximate order of importance on the Subject Site. All soils have the potential of moderate depth, potentially moderate to very slow infiltration rates, and are well drained to poorly drained.

<table>
<thead>
<tr>
<th>Soil series</th>
<th>Texture</th>
<th>Hydrologic Group</th>
<th>Drainage Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Clear Lake</td>
<td>Clay</td>
<td>Class D – Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.</td>
<td>Poorly drained</td>
</tr>
<tr>
<td>series</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Wright</td>
<td>Loam</td>
<td>Class C – Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.</td>
<td>Somewhat poorly drained</td>
</tr>
<tr>
<td>series</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Yolo</td>
<td>Clay loam</td>
<td>Class B – Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse.</td>
<td>Well drained</td>
</tr>
<tr>
<td>series</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Clear Lake</td>
<td>Clay</td>
<td>Class D – Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.</td>
<td>Poorly drained</td>
</tr>
<tr>
<td>series</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Zamora</td>
<td>Silty clay loam</td>
<td>Class B – Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse.</td>
<td>Well drained</td>
</tr>
<tr>
<td>series</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5.3.3 Geologic Conditions

Geomorphic Provinces

California is divided into eleven geomorphic provinces. The subject property in Sonoma County lies within the geomorphic province known as the Coast Range. The California Geologic Survey describes the Coast Range as follows:

"The Coast Ranges are northwest-trending mountain ranges (2,000 to 4,000, occasionally 6,000 feet elevation above sea level), and valleys. The ranges and valleys trend northwest, subparallel to the San Andreas Fault. Strata dip beneath alluvium of the Great Valley. To the west is the Pacific Ocean. The coastline is uplifted, terraced and wave-cut. The Coast Ranges are composed of thick Mesozoic and Cenozoic sedimentary strata. The northern and southern ranges are
separated by a depression containing the San Francisco Bay. The northern Coast Ranges are dominated by irregular, knobby, landslide-topography of the Franciscan Complex. The eastern border is characterized by strike-ridges and valleys in Upper Mesozoic strata. In several areas, Franciscan rocks are overlain by volcanic cones and flows of the Quien Sabe, Sonoma and Clear Lake volcanic fields. The Coast Ranges are subparallel to the active San Andreas Fault. The San Andreas is more than 600 miles long, extending from Pt. Arena to the Gulf of California. West of the San Andreas is the Salinian Block, a granitic core extending from the southern extremity of the Coast Ranges to the north of the Farallon Islands.” (CGS Note 36)

Geology
The Santa Rosa valley is a structural valley extending from approximately the Laguna de Santa Rosa eastward to the Sonoma and Mayacamas Mountains east of the City of Santa Rosa. It is likely to be underlain by basement material made up of the Franciscan Complex, which is a mélange of greywacke and metamorphic rock of Cretaceous and Jurassic age, and potentially by portions of the Great Valley Complex. This basement material may be too deep to affect near-surface groundwater at the site area.

The surface deposits at the Subject Site are alluvium, probably of varying grain size and potentially, vary widely in composition. A reading of “Geologic Map and Map Database of Eastern Sonoma and Western Napa Counties SIM 2956” indicates the subject site is near the center a valley filled with Holocene alluvium deposits. This alluvium is described as:

“Sand, silt, and gravel deposited in fan, valley fill, terrace, or basin environment. Mostly undissected by later erosion. Typically mapped in smooth, flat valley bottoms in medium-sized drainages and other areas where geomorphic expression is insufficient to allow differentiation of depositional environment.” (Graymer, 2007a&b)

EDR GeoCheck-Physical Setting Source Summary classified the rock unit as:

<table>
<thead>
<tr>
<th>ROCK STRATIGRAPHIC UNIT</th>
<th>GEOLOGIC AGE IDENTIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Era: Cenozoic</td>
<td>Category: Stratified Sequence</td>
</tr>
<tr>
<td>System: Quaternary</td>
<td>Series: Quaternary</td>
</tr>
</tbody>
</table>

5.3.4 Groundwater Characteristics

The Subject Property lies within the Santa Rosa Groundwater Basin and the Santa Rosa Plain Sub-Basin.

---
The Santa Rosa Plain Sub-Basin is approximately 22 miles long and approximately 9 miles wide in the Santa Rosa area. In the Cotati area it is approximately 6 miles wide. The sub-basin extends almost to Healdsburg in the north. The eastern boundary is defined by the Sonoma Mountains and the Mayacamas Mountains. The southern end of the sub-basin is defined by the hills which form the drainage divide between the Santa Rosa Valley and the Petaluma Valley. The western boundary is the Mendocino Range which separate Sebastopol from the coast.

The most significant water-bearing unit in the Santa Rosa Plain sub-basin is the Merced formation, which is also known as the Wilson Grove formation. This formation is thought to be shallow marine deposits. The non-marine Glen Ellen formation and alluvium valley fill include less significant amounts of groundwater. Groundwater in this valley is not always continuous due to irregular layers of clay and sediments that are often folded and faulted. (DWR, 2004)

Minor amounts of methane gas have been noted in fan deposits in this area. The gas may have risen from an underlying formation, such as the Merced, and been trapped within the fan deposits by overlying impermeable clay.

**Groundwater Level and Regional Groundwater Flow Direction**

Groundwater level and flow direction are useful in estimating contamination plume direction and to assess the significance of any surrounding hazards. The site groundwater levels can be estimated several ways.

One method uses the “Water-Level Contour Map of the Santa Rosa and Petaluma Valley Areas, California,” Plate 2, (Cardwell, 1958). This map gives groundwater level contours at 20 foot intervals. At the subject site the mapped groundwater level is approximate 115 feet above sea level which is approximately 10 feet below the elevation of the site. This map also indicates a groundwater flow to the west-southwest toward the Laguna de Santa Rosa. This method should provide reliable regional data because it is based on a regional study that used a large number of wells.

Another method uses the EDR GeoCheck-Physical Setting Source Summary which provides the following site-specific hydrogeologic data.

| Search Radius: | 1.25 miles |
| Location Relative to TP: | ½ - 1 Mile NW |
| Site Name: | Acme Auto Wreckers |
| Site EPA ID Number: | CAD98364998 |
| Groundwater Flow Direction: | Generally SW toward the Laguna de Santa Rosa a tributary of the Russian River, but the gradient in the site area has varied to the W and NW |
| Inferred Depth to Water: | 15 feet |
Hydraulic Connection: The site is underlain by deposits consisting of fine sands, silts, clays, coarse sand, and gravels to a depth of 200 feet. The shallow water table and lower aquifers are interconnected through numerous irrigation wells screened in both aquifers. No information about a sole source aquifer is available. Information is inferred in the CERCLIS investigation report(s).

Another method uses the EDR AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

Data from the AQUIFLOW Information System is included in the attached EDR Raduis Report. The average depth to groundwater when available ranged from 6 feet below ground surface (b.g.s.) to 18 feet b.g.s. The flow direction when reported ranged from south to northwest and often was reported as variable.

Therefore a probable depth to groundwater at the Subject Site is likely to be 5 to 20 feet below ground surface level with a probable flow direction of west-southwest. On-site drilling and testing will be required to confirm this information.

5.4 Results of Site History and Land Use Review

The objective of consulting historical sources is to develop a history of the previous uses of the Subject Property and surrounding area in order to identify the likelihood of past uses having led to recognized environmental conditions. All obvious uses of the property must be identified from the present back to the property’s first developed use or back to 1940, whichever is earlier (§ 8.3.2 ASTM 1527-05). The Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-05) requires a review of reasonably ascertainable standard historical sources. Reasonably ascertainable is defined by ASTM as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable. The following standard historical sources for the Subject Property were reviewed: Sanborn Fire Insurance Maps, City Directories, County Records Review, personal interviews, historical aerial photographs and previous environmental investigations.

5.4.1 Sanborn Fire Insurance Maps

Environmental Data Resources (EDR) of Southport, Connecticut investigated the historic Sanborn Fire Insurance Maps. The inquiry Number is 2861935.3 and is dated September 3, 2010. No coverage was reported.
The report prepared by EDR is attached to this Environmental Site Assessment as a component of Exhibit F.

5.4.2 Historical Topographic Maps

Environmental Data Resources (EDR) of Southport, Connecticut performed a search for historical topographic maps. The topographic maps are presented in the EDR report number 2861935.4 and dated September 3, 2010. The report is reproduced in Exhibit E of this report.

The historical topographic maps report prepared by EDR does not reveal any significant potential liability resulting from past activities.

5.4.3 Aerial Photographs

Environmental Data Resources (EDR) of Southport, Connecticut performed a search for historic aerial photographs. The photographs are presented in the EDR report number 2861935.5 and dated September 11, 2010. The report is reproduced in Exhibit E of this report. A synopsis of the aerial photography is presented in Table 5.4.3.

<table>
<thead>
<tr>
<th>Table 5.4.3: Description of the Subject Property from aerial photographs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DATE</strong></td>
</tr>
<tr>
<td>----------</td>
</tr>
</tbody>
</table>
| 1953     | Orchard with several missing trees. | North: Rural residential.  
|          |                        | East: Orchard.          
|          |                        | South: Rural residential.  
|          |                        | West: Rural residential. |
| 1965     | Orchard with several missing trees. | North: Rural residential.  
|          |                        | East: Residential and public school.  
|          |                        | South: Rural residential.  
|          |                        | West: Rural residential. |
|          |                        | East: Residential and public school.  
|          |                        | South: Rural residential.  
|          |                        | West: Rural residential. |
|          |                        | East: Residential and public school.  
|          |                        | South: Rural residential.  
|          |                        | West: Rural residential. |
|          |                        | East: Residential and public school.  
|          |                        | South: Rural residential.  
|          |                        | West: Rural residential. |
|          |                        | East: Residential and public school.  
|          |                        | South: Rural residential.  
|          |                        | West: Rural residential. |
5.4.4 City Directory

Environmental Data Resources (EDR) of Southport, Connecticut investigated historic City Directory; this report is documented in the EDR-City Directory Abstract Report dated September 3, 2010 with Inquiry Number 28619356. It is included in this report as a component of Exhibit F.

Business directories including city, cross-reference and telephone directories were reviewed, if available, at approximately five-year intervals for the years spanning 1930 through 2006. (These years are not necessarily inclusive.)

Neither of the two Subject Property address are listed in the report. This is consistent with usage as a multi-family residential site. This does not indicate an issue of environmental concern.

Adjacent Property listings appeared to be completely residential. No listing that appeared to be commercial was noted.

5.4.5 Local Records Review

Sonoma County Permit and Resource Management Department

Historical Permit records for the Subject Property were researched at the Sonoma County Permit and Resources Management Department. This review included the Sonoma County Building Permits and the Sonoma County Zoning records No adverse information related to the Subject Property at was found.

Table 5.4.5: Building and Zoning Permit History for APN 125-421-018 and 125-421-019

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Status</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRH09-0005</td>
<td>12/21/2009</td>
<td>Started</td>
<td>C-DRH</td>
<td>See PLP09-0101</td>
</tr>
<tr>
<td>ZCE09-0039</td>
<td>12/21/2009</td>
<td>Started</td>
<td>C-ZCE</td>
<td>See PLP09-0101</td>
</tr>
<tr>
<td>PLP09-0101</td>
<td>12/18/2009</td>
<td>Ref_sent</td>
<td>C-CPP</td>
<td>Zone change to add the -ah designation and design review for a 79 unit multifamily affordable housing development request for a zone change on 4.85 acres from the RR (rural residential) B6 - 4 acres density, VOH (valley oak habitat) to the RR B6 -4 acre density, VOH, AH (affordable housing) zoning district, and design review, to allow for a 79 unit multifamily affordable housing development that will include 20 structures.</td>
</tr>
<tr>
<td>PRE08-0012</td>
<td>11/20/2008</td>
<td>Complete</td>
<td>B-PRE</td>
<td>Proposed 96 unit multi-family housing development, 15 structures and total bedroom count is 218</td>
</tr>
<tr>
<td>R/S 05-007</td>
<td>1/13/2005</td>
<td>Map Appr</td>
<td>R/S</td>
<td>Burbank Housing Dev Corp --- map filed at county recorder in book 673 maps 22, Sonoma County records</td>
</tr>
</tbody>
</table>
5.4.6 Synopsis of Previous and Current Environmental Investigations

One previous environmental investigation prior to this report was identified. It is titled “Environmental Site Assessment, Phase 1 Investigation, 1990 & 2030 Burbank Avenue, Santa Rosa, California” and prepared for Burbank Housing Development Corporation, 3452 Mendocino Avenue, Santa Rosa, California 95403 by Harris and Lee Environmental Sciences, dated February 26, 2002. No Recognized Environmental Conditions were identified in that report.

6.0 SITE RECONNAISSANCE

On September 13, 2010 a California Registered Engineering Geologist performed a site reconnaissance of the Subject Property and nearby properties. The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the property. It is not an environmental compliance audit; this process does not determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations.

Photo-documentation of the property is presented in Exhibit D of this report.

6.1 Methodology and Limiting Conditions

The method used in conducting the site reconnaissance consisted of walking the perimeter and interior of the Subject Property and inspecting as closely as possible the features of the property. Visual observations of nearby properties were performed in an effort to identify conditions that potentially could negatively impact the subject site.

6.2 General Site Setting

The general site setting is an undeveloped field with no existing structures. The property is located near southwest Santa Rosa. Nearby properties have been developed over the past 60 years with subdivisions of single family residential developments located to the east. One adjoining property is a public school. The remainder of nearby properties are predominantly rural residential in use.

6.3 Subject Property

The Subject Property is an approximately rectangular property made up of two parcels totaling about 5 acres. The property is essentially flat with some irregularities and a slight grade to the south-west. There are no structures or any obvious improvements on the property.

Air photographs indicate the entire site was once a producing orchard. No clear indication of the orchard is currently visible from the ground level. The soil surface is irregular and may have been disked or plowed to turn the weeds into the soil. It is undeveloped and covered with annual grasses in the west and in the east the site
includes a few young oak trees, the possible remnant root stock of a previous orchard, and with bushes of poison oak. The site is no longer fenced except by the adjoining owners and is therefore open along the entire west side.

At the northwest corner there are two graveled auto parking spaces. On September 13, 2010, there was one small pickup parked there. Similar vehicles are also indicated on some of the air photographs. This may have been the primary access to the site in past years since it is the location of the only culvert along the west property boundary.

All nearby properties appear to be residential or rural residential in use except the public school located to the east. No obvious indications of activities on nearby properties that would be deleterious to the subject property were observed in the course of the site reconnaissance.

A sign was posted at the site to give notice of a public informational meeting on September 15, 2010 at the office of the Permit and Resource Management Department of the County of Sonoma. The topic stated is the preliminary review of the Crossroads project which is a 79 unit multifamily project proposed by the Burbank Housing Development Corporation under application PLP09-0101.

In the course of the inspection no indications of recognized environmental conditions were observed.

6.4 Adjacent Properties

- **North:** Rural residential
- **East:** Residential and public school
- **South:** Rural residential
- **West:** Rural residential

7.0 INTERVIEWS

7.1 Interviews with Past and Present Owners, Operators, and Occupants

Through examining historic air photographs and historic county permits issued to the site, it seems that this property probably has never had an occupant or dwelling. The orchard was removed many decades ago, therefore no past occupants or operators were interviewed. The present owner and occupant were interviewed in the course of this assessment.

7.2 Interviews with Local Government Officials

Individuals were interviewed at various city and county offices that were investigated for this report. These offices included the County of Sonoma Permit Resource and
Management Department, the Sonoma County Public Health Department and the staff at the North Coast Regional Water Quality Control Board.

7.3 Interviews with Others

Various individuals encountered while conducting the site reconnaissance of the site were interviewed. These brief interviews were conducted in a casual conversational manner in an attempt to determine if there are any historic factors that would indicate an impact on the property.

8.0 FINDINGS

Site Description and Current Use
The Subject Property is an approximately rectangular parcel of real estate composed of two assessor parcel numbers located southwest of Santa Rosa, California. The property is approximately 5 acres in area. There are no structures on the property. The site was once planted with an orchard which was removed some time between 1965 and 1982. Since then the property has been undeveloped and covered by annual grasses, weeds, and several oak trees.

Adjoining Properties Use
- **North:** Rural residential
- **East:** Residential and public school
- **South:** Rural residential
- **West:** Rural residential

Land Use Designations
The Subject Property’s zoning designation is DA-B6, 4, VOH. RR stands for Rural Residential District. B combining district specifies the density. VOH stands for Valley Oak Habitat.

Standard and Additional Environmental Records Search
The Standard and Additional Environmental Records Search did not disclose issues on the Subject Property. One Recognized Environmental Condition was disclosed on a property within the standard ASTM search radius of 1-mile that appeared to be significant for the Subject Property.

Physical Setting
The elevation of the Subject Property is at 125 feet above sea level with the general topographic gradient towards the west-southwest. Soils consist of generally poorly drained soils with slow infiltration rates. The predominant regional groundwater flow direction is probably west-southwest towards Laguna de Santa Rosa with some variations. Laguna de Santa Rosa is about 4.5 miles to the west of the Subject Property. The property is outside the 500-year and 100-year flood zones.
Historical and Present Use of Subject Property
Historically the property appears to have been used for low impact agricultural uses in the form of orchards and pasture.

Recognized Environmental Conditions
One Recognized Environmental Condition relative to the Subject Site was identified. It is the New Roseland Area Elementary School at 2611 Dutton Meadow located approximately 972 feet north-northwest of the Subject Site. The potential contaminants are heavy metals and polynuclear aromatic hydrocarbons. Surface sediments and surface water are being investigated, however the contamination is not defined and the investigation is not complete.

Historic Recognized Environmental Conditions
No Historic Recognized Environmental Conditions were identified in connection with the Subject Property.

De Minimis Conditions and Data Gaps
No de minimis conditions or data gaps were identified in connection with the Subject Property.

9.0 CONCLUSIONS

Harris & Lee Environmental Sciences, LLC has performed an All Appropriate Inquires-Phase 1 Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E-1527-05 of the property within the designated as Sonoma County Assessor’s Parcel Number 125-421-018 and 125-421-019.

In the course of performing this All Appropriate Inquiry-Environmental Site Assessment, Phase 1 Investigation evidence of Recognized Environmental Conditions one was identified on the Subject Property. The Recognized Environmental Condition is the New Roseland Area Elementary School at 2611 Dutton Meadow located approximately 972 feet north-northwest of the Subject Site. The potential contaminants are heavy metals and Polynuclear Aromatic Hydrocarbons. Surface sediments and surface water are being investigated, however the contamination is not defined and the investigation is not complete.

10.0 OPINION

Harris & Lee Environmental Sciences, LLC reminds the client that it is always prudent to maintain care in handling chemicals and any hazardous materials in any building or any property. It is pertinent to be reminded that the building / property owner is ultimately responsible for the environmental compliance that occurs in any building or on any property. Thus, if a tenant is not in compliance, the owner, who has nothing to do with the tenant’s operations, can be held responsible.
**Recommendations**
Harris & Lee Environmental Sciences, LLC recommends that no further environmental investigation is warranted on the Subject Property given the findings of this Phase I Environmental Site Assessment.

**11.0 ENVIRONMENTAL PROFESSIONAL STATEMENT**

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and 12.13.2 We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

**12.0 DEVIATIONS**

There are no deviations in the preparation of this Environmental Site Assessment from the Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process (ASTM Designation: E-1527-05).

**13.0 ADDITIONAL SERVICES**

No additional services beyond the All Appropriate Inquiry, Environmental Site Assessment Phase 1 Investigation ASTM E-1527-05 Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process were added to this report.

**14.0 REFERENCES**

**14.1 Published References**


California Geologic Survey, 2002, CALIFORNIA GEOMORPHIC PROVINCES, Note 36


USDA, Soil Conservation Service, January 1972, Soil Survey of Sonoma County, California

U. S. Geological Survey, 7.5-Minute Santa Rosa Quadrangle Topographical Map: Scale 1:24,000


14.2 Unpublished References

Environmental Data Resources, Inc., The EDR Radius Map with GeoCheck, Inquiry Number 2861935.2s for Burbank Housing Development Corporation, 1990 & 2030 Burbank Ave, Santa Rosa, CA 95407, September 3, 2010

Environmental Data Resources, Inc., Certified Sanborn® Map Report, Inquiry Number 2861935.3 for Burbank Housing Development Corporation, 1990 & 2030 Burbank Ave, Santa Rosa, CA 95407, September 3, 2010

Environmental Data Resources, Inc., EDR-Historical Topographic Map Report, Inquiry Number 2861935.4 for Burbank Housing Development Corporation, 1990 & 2030 Burbank Ave, Santa Rosa, CA 95407, September 3, 2010

Environmental Data Resources, Inc., The EDR Aerial Photo Decade Package, Inquiry Number 2861935.5 for Burbank Housing Development Corporation, 1990 & 2030 Burbank Ave, Santa Rosa, CA 95407, September 10, 2010

Environmental Data Resources, Inc., The EDR-City Directory Abstract, Inquiry Number 2861935.6 for Burbank Housing Development Corporation, 1990 & 2030 Burbank Ave, Santa Rosa, CA 95407, September 3, 2010
15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and 12.13.2 We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.
PROFESSIONAL PROFILE

Robert S. Harris

TITLE: Partner/Senior Scientist: Harris & Lee Environmental Sciences LLC
Partner: Lee Seeley & Harris

EXPERTISE: Thirty-six (36) years experience in Environmental Analytical Chemistry and Environmental Toxicology. Efforts involved full research laboratory supervision for the University of California as well as commercial laboratories involved in Environmental Analytical Chemistry. Developed and refined the now standard method for PCB Analysis in various matrices. Mr. Harris has supported Risk Assessments, Site Audits, Health and Safety Management programs, and Hazardous Waste Management Programs. In addition, Mr. Harris has brought electronic data management technology into major petroleum industry members including Exxon, USA, Chevron USA, Texaco, USA, Mobil Oil Corporation, Atlantic Richfield (ARCO), Amarada Hess, Unocal, and Pacific Gas and Electric Company.

EXPERIENCE: Laboratory Director for the University of California for 11 years beginning in 1964; operated laboratories on the Davis Campus and the Hopland Field Station in Mendocino County, California. Published 12 research papers at the University of California. Founded Multi-Tech Laboratories in Ukiah in 1974. Established laboratories in Ukiah and Santa Rosa, CA. Multi-Tech Laboratories was one of the larger laboratories in California. During this time Mr. Harris developed several methodologies for environmental analysis, including the standard method for the analyses of Polychlorinated Biphenyls (PCB’s) in water, soils and oils. When the laboratory became a part of Environmental Testing and Certification Corporation, Mr. Harris was Executive Vice President in charge of western United States operations.

Established American Technologies in 1992 and developed it in the United States and Mexico. Changed name of American Technologies to Harris & Lee Environmental Sciences in 1997. Development and refinement of the concept of environmental management where toxic risk evaluation and regulatory requirements guide the project oversight. Supervised the management and orchestration of source monitoring in Southern California. In Northern California, developed a waste minimization
program that converted waste costing $120K per month for disposal into a usable fuel to operate high pressure steam boilers.

Has carried out property transfer assessments and aided in the control and management of environmental as well as health and safety risk. In this capacity, Mr. Harris has used his knowledge of the sciences of chemistry and toxicology to properly identify risks that are real and to separate these from situations where the risk is suspected but not real. In this capacity, Mr. Harris has assisted lending institutions, insurance companies, real estate professionals and law firms in identifying chemical profiles and characteristics in toxic situations and managing environmental risk. Mr. Harris has extensive experience in litigation support and expert testimony in areas of environmental chemistry and industrial process chemistry.

ACADEMIC BACKGROUND: BS. Zoology, Minor, Chemistry, University of California, Davis, 1964
MS, Biology, emphasis Biochemistry, California State University, Sonoma, 1972

PUBLICATIONS: Published approximately 12 times in the fields of agricultural chemistry, neurophysiology and animal physiology.

SPECIALIZED TRAINING: Varian Gas Chromatography Course
Varian Electronic Chromatograph Data Reduction
Hewlett Packard GC/MS Course I
Hewlett Packard GC/MS Course II
Risk Assessment for Hazardous Chemicals
University of California Hazardous Materials Courses
University of California Advanced Environmental Auditing
American Society for Testing and Materials, Risk Based Corrective Action

PROFESSIONAL AFFILIATIONS: American Chemical Society
American Association for the Advancement of Science
American Water Works Association
Rotary International

CERTIFICATIONS: California Registered Environmental Assessor
REA #4966
PROFESSIONAL PROFILE

Patricia A. Beach, CIH

TITLE: Partner/Senior Scientist: Harris & Lee Environmental Sciences LLC

EXPERTISE: As a Certified Industrial Hygienist (CIH), Ms. Beach has extensive experience in the recognition, evaluation and control of hazards in the workplace and the environment. She has over thirteen years of experience in environmental risk assessment, toxicology and occupational health and safety. She specializes in chemical exposure assessment and control with a wide-array of experience in assessing and managing chemical safety issues across industry sectors. She has extensive experience in the risk reduction and control of unique chemical hazards, namely potent pharmaceutical and R&D compounds. As the senior industrial hygienist for a major Bay Area biopharmaceutical company, she established numerous health and safety programs from inception with measured results and success, including the Potent Pharmaceutical Safety program. She offers a unique blend of strong technical skills with business acumen to effectively communicate the issues to a range of stakeholders from industrial operators to executive leaders to solve problems always with the business needs and goals in mind.

EXPERIENCE: As an Associate Toxicologist for over five years with two leading environmental consulting firms, Ms. Beach served clients in environmental site cleanup activities by supporting the establishment of cleanup criteria, human health risk assessment, preparing health and safety plans for hazardous waste site remediation programs, conducting exposure assessments under Proposition 65, and preparing Material Safety Data Sheets for new and existing chemicals. She also provided support to a Bay Area School District on issues ranging from potential exposures and cleanup of toxic mold to management of lead and asbestos remediation activities.

Ms. Beach worked in the Pico Rivera enforcement office of Cal/OSHA, widely considered the most active Cal/OSHA office in the state, where she assisted compliance inspectors during site inspections of alleged work place violations. She evaluated numerous worksites and hazardous processes ranging from indoor air quality issues in office buildings, to hazards of commercial laundry facilities, lead smelters and electroplating operations to
name a few. She has been on both sides of OSHA inspections and is adept at guiding clients how to prepare for, and most importantly, how to avoid OSHA inspections by implementing effective health and safety programs.

Ms. Beach worked for over seven years as the Associate Director of Corporate Occupational Health and Industrial Hygiene for a leading global biopharmaceuticals company. Ms. Beach developed, gained support for, implemented and provided management oversight for numerous occupational health and safety programs related to risk reduction and OSHA and EPA compliance. She authored the corporate policies and established the program elements for the following: Laboratory Chemical Safety, Hazard Communication/Community Right-to-Know, Potent Pharmaceutical Compound Safety, Respiratory Protection, Hearing Conservation, Confined Space Safety, Indoor Air Quality, Lead and Asbestos Management Programs, Third-Party Contractor Safety, and the Environment, Health and Safety (EH&S) Change Management Program. She also provided support and guidance on numerous building design projects that facilitated the incorporation of EH&S requirements from design inception through construction and commissioning. Ms. Beach has provided support and oversight for Injury, Illness Incident Prevention Programs, Lockout/Tagout, Fire Safety, Ergonomics, and EH&S metrics development and reporting. She was instrumental in bringing EH&S data management software to fruition in her company and also managed the implementation of an occupational health and industrial hygiene data management tool, Medgate.

**ACADEMIC BACKGROUND:**

- BS, Environmental Toxicology, University of California, Davis, 1993
- MS, Environmental Health Sciences, emphasis Industrial Hygiene, University of California, Los Angeles, 1998

**PRESENTATIONS:**


**PROFESSIONAL**
AFFILIATIONS: Member, American Industrial Hygiene Association  
Director, American Industrial Hygiene Association, Northern California Chapter.

CERTIFICATIONS: 
Certified Industrial Hygienist, #8494  
Registered Environmental Assessor, #08178
Exhibit A – Vicinity Map
Exhibit B – Preliminary Title Report and Assessor’s Parcel Map
Tom Lauderbach  
Burbank Housing Development Corporation  
790 Sonoma Avenue  
Santa Rosa, CA 95404

DIRECT ALL INQUIRIES TO:  
Escrow Officer: Linda McDoniels  
Phone: (707)446-9575  
Fax No.: (707)446-0414  
E-Mail: lmcdoniels@nat.com  
E-Mail Loan Documents to: nocal.vacaville@natdocs.com

Property: UNIMPROVED LAND KNOWN AS, 1980 - 2010 BURBANK AVENUE  
SANTA ROSA, CA  
Borrower: Burbank Housing Development Corp.

PRELIMINARY REPORT

IN RESPONSE TO THE ABOVE REFERENCED APPLICATION FOR A POLICY OF TITLE INSURANCE,

North American Title Insurance Company

Hereby reports that it is prepared to issue, or cause to be issued, as of the date hereof, a Policy or Policies of Title Insurance describing the land and the estate or interest therein hereinafter set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as an Exception below or not excluded from coverage pursuant to the printed Schedules, Conditions and Stipulations of said Policy forms.

The printed Exceptions and Exclusions from the coverage and limitations on covered risks of said Policy or Policies are set forth in Exhibit A attached. The Policy to be issued may contain an Arbitration Clause. When the amount if insurance is less than that set forth in the Arbitration Clause, all arbitrable matters shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the Parties. Limitations on covered risks applicable to the CLTA and ALTA Homeowner’s Policies of Title Insurance which establish a deductible amount and a maximum dollar limit of liability for certain coverages are also set forth in Exhibit A. Copies of the Policy forms should be read. They are available from the office which issued this report.

Please read the exceptions shown or referred to below and the exceptions and exclusions set forth in Exhibit A of this report carefully. The exceptions and exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy and should be carefully considered.

It is important to note that this preliminary report is not a written representation as to the condition of title and may not list all liens, defects, and encumbrances affecting title to the land.

This report (and any supplements or amendments hereto) is issued solely for the purpose of facilitating the issuance of a policy of title insurance and no liability is assumed hereby. If it is desired that liability be assumed prior to the issuance of a policy of title insurance, a Binder or Commitment should be requested.

Dated as of September 3, 2010 at 7:30 A.M.  
Jim White, Title Officer

Order No.: 56103-951589-09
The form of Policy of title insurance contemplated by this report is:

ALTA LOAN 2006

A specific request should be made if another form or additional coverage is desired.

Title to said estate or interest at the date hereof is vested in:

BURBANK HOUSING DEVELOPMENT CORPORATION, A CALIFORNIA NON-PROFIT PUBLIC BENEFIT CORPORATION

The estate or interest in the land hereinafter described or referred to covered by this Report is:

A fee.

The Land referred to herein is described as follows:

(See attached Legal Description)

At the date hereof exceptions to coverage in addition to the printed Exceptions and Exclusions in said policy form would be as follows:

1. General and special taxes and assessments for the fiscal year 2010-2011.

   First Installment: $5,384.30, OPEN
   Penalty: $0.00
   Second Installment: $5,384.30, NOT YET DUE AND PAYABLE
   Penalty: $0.00
   Tax Rate Area: 150-008
   A. P. No.: 125-421-019-000

2. General and special taxes and assessments for the fiscal year 2010-2011.

   First Installment: $5,384.30, OPEN
   Penalty: $0.00
   Second Installment: $5,384.30, NOT YET DUE AND PAYABLE
   Penalty: $0.00
   Tax Rate Area: 150-008
   A. P. No.: 125-421-018-000

3. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

4. PROVISIONS, HEREFIN RECITED, OF THE DEDICATION STATEMENT ON THE MAP OF THE SUBDIVISION SHOWN BELOW.

   SUBDIVISION: WEST ROSELAND TRACT
   BOOK: 28
   PAGE: 11
   PROVISIONS: NOTES AS SHOWN ON THE MAP
5. Any and all offers of dedication, conditions, restrictions, easements, fenceline/boundary
discrepancies, notes and/or provisions shown or disclosed by the filed or recorded map referred
to in the legal description, including but not limited to:

Easement for SIDEWALK and incidental purposes affecting THE WESTERLY 5 FEET OF THE
HEREIN DESCRIBED PROPERTY.

6. A deed of trust to secure an original indebtedness of $800,000.00 recorded July 28,
Dated: July 26, 2004
Trustor: Burbank Housing Development Corporation, a California
nonprofit public benefit corporation
Trustee: First American Title Insurance Company
Beneficiary: Department of Housing and Community Development, a public
agency of the State of California

A document recorded August 18, 2008 as Instrument No. 2008075575 of Official Records
provides that the lien or charge of the deed of trust was subordinated to the lien or charge of the
deed of trust recorded August 18, 2008 as Instrument No. 2008075578 of Official Records.

7. The effect of a map purporting to show the land and other property, filed IN BOOK 673, PAGE
22 of Record of Surveys.

SAID MAP DISCLOSES POSSIBLE FENCENAME ENCROACHMENTS LYING BOTH INSIDE AND
OUTSIDE OF THE PROPERTY LINES.

8. The terms and provisions contained in the document entitled REGULATORY AGREEMENT,
executed by and between THE HOUSING AUTHORITY OF THE CITY OF SANTA ROSA and
BURBANK HOUSING DEVELOPMENT CORPORATION, recorded MAY 1, 2006 as Instrument No.

9. A deed of trust to secure an original indebtedness of $850,000.00 recorded MAY 1,
Dated: MAY 1, 2006
Trustor: BURBANK HOUSING DEVELOPMENT CORPORATION, A
CALIFORNIA NON-PROFIT PUBLIC BENEFIT CORPORATION
Trustee: NORTH AMERICAN TITLE COMPANY, A CALIFORNIA
CORPORATION
Beneficiary: HOUSING AUTHORITY OF THE CITY OF SANTA ROSA

A document recorded SEPTEMBER 1, 2006 as INSTRUMENT NO. 2006109068 of Official Records
provides that the deed of trust or the obligation secured thereby has been modified.

A document recorded AUGUST 18, 2008 as INSTRUMENT NO. 2008075577 of Official Records
provides that the above document was subordinated to the document recorded AUGUST 18,
10. A deed of trust to secure an original indebtedness of $1,100,000.00 recorded MAY 1, 2006 as INSTRUMENT NO. 2006-52032 of Official Records.

   Dated: MAY 1, 2006
   Trustor: BURBANK HOUSING DEVELOPMENT CORPORATION, A CALIFORNIA NON-PROFIT PUBLIC BENEFIT CORPORATION
   Trustee: NORTH AMERICAN TITLE COMPANY, A CALIFORNIA CORPORATION
   Beneficiary: HOUSING AUTHORITY OF THE CITY OF SANTA ROSA

   A document recorded SEPTEMBER 1, 2006 as INSTRUMENT NO. 2006109068 of Official Records provides that the deed of trust or the obligation secured thereby has been modified.

   A document recorded AUGUST 18, 2008 as INSTRUMENT NO. 2008075576 of Official Records provides that the above document was subordinated to the document recorded AUGUST 18, 2008 as INSTRUMENT NO. 2008075578 of Official Records.


12. The fact that the land lies within the boundaries of the SOUTHWEST Redevelopment Project Area, as disclosed by various documents of record.

13. A deed of trust to secure an original indebtedness of $1,400,000.00 recorded AUGUST 18, 2008 as INSTRUMENT NO. 2008075578 of Official Records.

   Dated: AUGUST 8, 2008
   Trustor: BURBANK HOUSING DEVELOPMENT CORPORATION, A CALIFORNIA NON-PROFIT PUBLIC BENEFIT CORPORATION
   Trustee: NORTH AMERICAN TITLE COMPANY
   Beneficiary: EXCHANGE BANK

14. The terms and provisions contained in the document entitled "HAZARDOUS SUBSTANCES CERTIFICATE AND INDEMNITY AGREEMENT" recorded AUGUST 18, 2008 as INSTRUMENT NO. 2008075579 of Official Records. EXECUTED BY BURBANK HOUSING DEVELOPMENT CORPORATION, A CALIFORNIA NON-PROFIT PUBLIC BENEFIT CORPORATION AND EXCHANGE BANK, CONSTRUCTION AND MORTGAGE LENDING GROUP


16. Terms and provisions contained in the above document.
LEGAL DESCRIPTION

Real property in the unincorporated area of the County of SONOMA, State of CALIFORNIA, described as follows:

BEGINNING AT THE WESTERLY CORNER COMMON TO LOTS 18 AND 19, IN WEST ROSELAND TRACT, ACCORDING TO THE MAP THEREOF, FILED IN THE OFFICE OF THE COUNTY RECORDER ON SEPTEMBER 17, 1912, IN BOOK 28 OF MAPS, PAGE(S) 11, SONOMA COUNTY RECORDS; THENCE NORTH 5° 34' WEST, ALONG BURBANK AVENUE, A DISTANCE OF 250.8 FEET; THENCE NORTH 84° 44' EAST PARALLEL WITH THE SOUTH LINE OF LOT 18, A DISTANCE OF 13.07 CHAINS TO THE EASTERLY LINE OF SAID LOT 18; THENCE ALONG THE EASTERLY LINE OF LOTS 18 AND 19, SOUTH 5° 26' EAST, A DISTANCE OF 252.12 FEET; THENCE SOUTH 84° 44' WEST, PARALLEL WITH THE NORTH LINE OF LOT 19, A DISTANCE OF 13.06 CHAINS TO BURBANK AVENUE, NORTH 5° 34' WEST, A DISTANCE OF 1.32 FEET, TO THE POINT OF BEGINNING.

APN: 125-421-018-000 and 125-421-019-000
1. City Transfer Tax are imposed as follows:

   Santa Rosa, Petaluma and Sebastopol $2.00 per $1,000.00
   Cotati $1.90 per $1,000.00
   Cloverdale $1.10 per $1,000.00

   This fee is in addition to the $1.10 per $1,000.00 value that the County of Sonoma imposes. When preparing any instrument conveying property in these cities, the transfer tax to the city must be separately stated from the county transfer tax.

2. Pursuant to Section 12413.1 of the insurance code funds deposited in escrow must be held for the following time periods before they can be disbursed:

   1. Cash or wired funds--available or immediate dispersal after deposit in bank or confirmation of receipt in account. Bear in mind that Cash will be accepted from customers only under special circumstances as individually approved by management.
   2. Cashier checks, certified checks, tellers checks--next day available funds.
   3. All other checks must be held in accordance with regulation CC adopted by the Federal Reserve Board of Governors before they must be disbursed.
   4. Drafts must be collected before they may be disbursed.

   North American Title Company will not be responsible for accruals of interest or other charges resulting from compliance with the disbursement restrictions imposed by state law.

   For Your Information, Our Wire Instructions Are:

   **Wire To:**

   Comerica Bank
   2321 Rosecrans Ave, Ste 5000
   El Segundo, CA 90245

   **Credit the Account of:**

   North American Title Company
   Bank Account No.: 1893561033
   Escrow No. 56103-951589-09

   Routing No.: 121137522
   Branch/County No.: 56103

   Attn: Linda McDoniels

   • **ACH FUNDS** - Automatic Clearing House
     North American Title Company will not accept funds in the form of ACH transfers.

3. This report is preparatory to the issuance of an ALTA Loan Policy. We have no knowledge of any fact which would preclude the issuance of the policy with CLTA endorsement forms 100 and 116 and if applicable, 115 and 116.2 attached.

   When issued, the CLTA endorsement form 116 or 116.2, if applicable will reference a(n) VACANT LAND known as UNIMPROVED LAND KNOWN AS, 1980 - 2010 BURBANK AVENUE, SANTA ROSA, CALIFORNIA.
4. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

None

5. Should this report be used to facilitate your transaction, we must be provided with the following prior to the issuance of the policy:

A. WITH RESPECT TO A CORPORATION:
   a. A certificate of good standing of recent date issued by the Secretary of State of the corporation's state of domicile.

   b. A certificate copy of a resolution of the Board of Directors authorizing the contemplated transaction and designating which corporate officers shall have the power to execute on behalf of the corporation.

   c. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

B. WITH RESPECT TO A CALIFORNIA LIMITED PARTNERSHIP:
   a. A certified copy of the certificate of limited partnership (form LP-1) and any amendments thereto (form LP-2) to be recorded in the public records;

   b. A full copy of the partnership agreement and any amendments;

   c. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;

   d. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

C. WITH RESPECT TO A FOREIGN LIMITED PARTNERSHIP:
   a. A certified copy of the application for registration, foreign limited partnership (form LP-5) and any amendments thereto (form LP-6) to be recorded in the public records;

   b. A full copy of the partnership agreement and any amendment;

   c. Satisfactory evidence of the consent of a majority in interest of the limited partners to the contemplated transaction;

   d. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

D. WITH RESPECT TO A GENERAL PARTNERSHIP:
   a. A certified copy of a statement of partnership authority pursuant to Section 16303 of the California Corporation Code (form GP-1), executed by at least two partners, and a certified copy of any amendments to such statement (form GP-7), to be recorded in the public records;

   b. A full copy of the partnership agreement and any amendments;
c. Requirements which the Company may impose following its review of the above material required herein and other information which the Company may require.

E. WITH RESPECT TO A LIMITED LIABILITY COMPANY:
   a. A copy of its operating agreement and any amendments thereto;
   
   b. If it is a California limited liability company, a certified copy of its articles of organization (LLC-1) and any certificate of correction (LLC-11), certificate of amendment (LLC-2), or restatement of articles of organization (LLC-10) to be recorded in the public records;
   
   c. If it is a foreign limited liability company, a certified copy of its application for registration (LLC-5) to be recorded in the public records;
   
   d. With respect to any deed, deed of trust, lease, subordination agreement or other document or instrument executed by such limited liability company and presented for recordation by the Company or upon which the Company is asked to rely, such document or instrument must be executed in accordance with one of the following, as appropriate:
      
      (i) If the limited liability company properly operates through officers appointed or elected pursuant to the terms of a written operating agreement, such documents must be executed by at least two duly elected or appointed officers, as follows: the chairman of the board, the president or any vice president, and any secretary, assistant secretary, the chief financial officer or any assistant treasurer;

      (ii) If the limited liability company properly operates through a manager or managers identified in the articles of organization and/or duly elected pursuant to the terms of a written operating agreement, such document must be executed by at least two such managers or by one manager if the limited liability company properly operates with the existence of only one manager.

   e. Requirements which the Company may impose following its review of the above material and other information which the Company may require.

F. WITH RESPECT TO A TRUST:
   a. A certification pursuant to Section 18500.5 of the California Probate Code in a form satisfactory to the Company.

   b. Copies of those excerpts from the original trust documents and amendments thereto which designate the trustee and confer upon the trustee the power to act in the pending transaction.

   c. Other requirements which the Company may impose following its review of the material require herein and other information which the Company may require.

G. WITH RESPECT TO INDIVIDUALS:
   a. A statement of information.

6. The map attached, if any, may or may not be a survey of the land depicted hereon. North American expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of the title insurance policy, if any, to which this map is attached.
7. North American Title Company, Inc.'s charges for recording the transaction documents include charges for services performed by North American Title Company, Inc., in addition to an estimate of payments to be made to governmental agencies.
Exhibit A (Revised 11-17-06)

CALIFORNIA LAND TITLE ASSOCIATION

STANDARD COVERAGE POLICY - 1990

Exclusions From Coverage

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building or zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien, or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

(b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.

3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) whether or not recorded in the public records at Date of Policy, but created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage or for the estate or interest insured by this policy.

4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with the applicable doing business laws of the state in which the land is situated.

5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.

6. Any claim, which arises out of the transaction vesting in the insured the estate of interest insured by this policy or the transaction creating the interest of the insured lender, by reason of the operation of federal bankruptcy, state insolvency or similar creditors' rights laws.

EXCEPTIONS FROM COVERAGE – SCHEDULE B, PART I

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.

   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.

2. Any facts, rights, interests, or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.

3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.

4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.

5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

CLTA HOMEOWNER'S POLICY OF TITLE INSURANCE (10/22/03)
ALTA HOMEOWNER'S POLICY OF TITLE INSURANCE

EXCLUSIONS

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes ordinances, laws and regulations concerning:
   a. building
   b. zoning
   c. Land use
   d. improvements on the Land
   e. Land division
   f. environmental protection

   This Exclusion does not apply to violations or the enforcement of these matters if notice of the violation or enforcement appears in the Public Records at the Policy Date.

   This Exclusion does not limit the coverage described in Covered Risk 14, 15, 16, 17 or 24.

2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not apply to violations of building codes if notice of the violation appears in the Public Records at the Policy Date.

3. The right to take the Land by condemning it, unless:
   a. a notice of exercising the right appears in the Public Records at the Policy Date; or
   b. the taking happened before the Policy Date and is binding on You if You bought the Land without Knowing of the taking.

4. Risks:
   a. that are created, allowed, or agreed to by You, whether or not they appear in the Public Records;
   b. that are Known to You at the Policy Date, but not to Us, unless they appear in the Public Records at the Policy Date;
   c. that result in no loss to You; or
   d. that first occur after the Policy Date - this does not limit the coverage described in Covered Risk 7, 8, 9, 12, 13 or 14.

5. Failure to pay value for Your Title.

6. Lack of a right:
   a. to any Land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
   b. in streets, alleys, or waterways that touch the Land.

   This Exclusion does not limit the coverage described in Covered Risk 11 or 18.
EXCLUSIONS

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys’ fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
   - land use
   - improvements on the land
   - environmental protection

   This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.

   This exclusion does not limit the zoning coverage described in Items 12 and 13 of Covered Title Risks.

2. The right to take the land by condemning it, unless:
   - a notice of exercising the right appears in the public records
   - on the Policy Date
   - the taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking

3. Title Risks:
   - that are created, allowed, or agreed to by you
   - that are known to you, but not to us, on the Policy Date -- unless they appeared in the public records
   - that result in no loss to you
   - that first affect your title after the Policy Date -- this does not limit the labor and material lien coverage in Item 8 of Covered Title Risks

4. Failure to pay value for your title.

5. Lack of a right:
   - to any land outside the area specifically described and referred to in Item 3 of Schedule A OR
   - in streets, alleys, or waterways that touch your land

   This exclusion does not limit the access coverage in Item 5 of Covered Title Risks.

AMERICAN LAND TITLE ASSOCIATION LOAN POLICY (10-17-92)
WITH ALTA ENDORSEMENT-FORM 1 COVERAGE

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys’ fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the Land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a notice of exercising violation affecting the land has been recorded in the public records at Date of Policy.

   (b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.

3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) created, suffered, assumed or agreed to by the insured claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the insured claimant;
   (d) attaching or created subsequent to Date of Policy (except to the extent that this policy insures the priority of the lien of the insured mortgage over any statutory lien for services, labor or material or to the extent insurance is afforded herein as to assessments for street improvements under construction or completed at Date of Policy); or
   (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the insured mortgage.

4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable doing business laws of the state in which the land is situated.

5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.

6. Any statutory lien for services, labor or materials (or the claim of priority of any statutory lien for services, labor or materials over the lien of the insured mortgage) arising from an improvement or work related to the land which is contracted for and commenced subsequent to Date of Policy and is not financed in whole or in part by proceeds of the indebtedness secured by the insured mortgage at Date of Policy the insured has advanced or is obligated to advance.

7. Any claim, which arises out of the transaction creating the interest of the mortgagor insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
   (i) the transaction creating the interest of the insured mortgagor being deemed a fraudulent conveyance or fraudulent transfer; or
   (ii) the subordination of the interest of the insured mortgagor as a result of the application of the doctrine or equitable subordination; or
   (iii) the transaction creating the interest of the insured mortgagor being deemed a preferential transfer except where the preferential transfer results from the failure:
   (a) to timely record the instrument of transfer; or
   (b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

   The above policy forms may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following General Exceptions:
EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys’ fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests, or claims that are not shown by the public records but which could be ascertained by an inspection of the Land or which may be ascertained by persons in possession thereof.
3. Easements, liens or encumbrances, whether or not shown by the public records.
4. Disparities, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

2006 ALTA LOAN POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys’ fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
   (i) the occupancy, use, or enjoyment of the Land;
   (ii) the character, dimensions, or location, of any improvement erected on the Land;
   (iii) the subdivision of Land; or
   (iv) environmental protection;

Or the effect of any violation of these laws, ordinances, or governmental regulations. This exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.

3. Defects, liens, encumbrances, adverse claims, or other matters
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not known to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.

4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing business laws of the state where the Land is situated.

5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon or any consumer credit protection or truth-in-lending law.

6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
   (a) a fraudulent conveyance or fraudulent transfer, or
   (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.

7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys’ fees or expenses) that arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be ascertained by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the Public Records.
AMERICAN LAND TITLE ASSOCIATION OWNER’S POLICY (10-17-92)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the Land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the Land; (iii) a separation in ownership or a change in the dimensions or area of the Land or any parcel of which the Land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.

(b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the Land has been recorded in the public records at Date of Policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.

3. Defects, liens, encumbrances, adverse claims or other matters:
   (a) created, suffered, assumed or agreed to by the Insured Claimant;
   (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the Insured Claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy; or
   (e) resulting in loss or damage which would not have been sustained if the Insured Claimant had paid value for the estate or interest insured by this policy.

4. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by this policy, by reason of the operation of federal or state insolvency, or similar creditors' rights laws, that is based on:
   (i) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer, or
   (ii) the transaction creating the estate or interest insured by this policy being deemed a preferential transfer except where the preferential transfer results from the failure:
      (a) to timely record the instrument of transfer; or
      (b) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

The above policy forms may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage Policy will also include the following General Instructions:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.
   Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.

2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the Land or which may be ascertained by making inquiry of persons in possession thereof.

3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.

4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.

5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

2006 ALTA OWNER’S POLICY (06-17-06)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
      (i) the occupancy, use, or enjoyment of the Land;
      (ii) the character, dimensions, or location of any improvement erected on the Land;
      (iii) the subdivision of Land; or
      (iv) environmental protection;
      or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.

(b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.

2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.

3. Defects, liens, encumbrances, adverse claims, or other matters:
   (a) created, suffered, assumed, or agreed to by the Insured Claimant;
   (b) not known to the Company, not recorded in the Public Records at Date of Policy, but known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
   (c) resulting in no loss or damage to the Insured Claimant;
   (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10); or
   (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.

4. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the
   Title as shown in Schedule A, is
      (a) a fraudulent conveyance or fraudulent transfer; or
      (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.

5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attached between Date of Policy
   and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

The above policy form may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:
EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) that arise by reason of:

1. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.
2. Any facts, rights, interests, or claims that are not shown in the Public Records but that could be ascertained by an inspection of the Land or that may be ascertained by persons in possession of the Land.
3. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.
4. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and that are not shown by the Public Records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

ALTA EXPANDED COVERAGE RESIDENTIAL LOAN POLICY (10/13/01)

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the Land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the Land; (iii) a separation in ownership or a change in the dimensions or areas of the Land or any parcel of which the Land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the Land has been recorded in the Public Records at Date of Policy. This exclusion does not limit the coverage provided under Covered Risks 12, 13, 14, and 16 of this policy.
(b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the Land has been recorded in the Public Records at Date of Policy. This exclusion does not limit the coverage provided under Covered Risks 12, 13, 14, and 16 of this policy.

2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the Public Records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
(a) created, suffered, assumed or agreed to by the insured Claimant;
(b) known to the Company, not recorded in the Public Records at Date of Policy, but known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
(c) resulting in no loss or damage to the Insured Claimant;
(d) attaching or created subsequent to Date of Policy (this paragraph does not limit the coverage provided under Covered Risks 8, 16, 18, 19, 20, 21, 22, 23, 24, 25 and 26); or
(e) resulting in loss or damage which would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage.
4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of the Insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable doing business laws of the state in which the Land is situated.
5. Invalidity or unenforceability of the lien of the Insured Mortgage, or claim thereof, which arises out of the transaction evidenced by the Insured Mortgage and is based upon usury, except as provided in Covered Risk 27, or any consumer credit protection or truth in lending law.
6. Real property taxes or assessments of any governmental authority which become a lien on the Land subsequent to Date of Policy. This exclusion does not limit the coverage provided under Covered Risks 7, 8(e) and 26.
7. Any claim of invalidity, unenforceability or lack of priority of the lien of the Insured Mortgage as to advances or modifications made after the Insured has Knowledge that the vasteet shown in Schedule A is no longer the owner of the estate or interest covered by this policy. This exclusion does not limit the coverage provided in Covered Risk 8.
8. Lack of priority of the lien of the Insured Mortgage as to each and every advance made after Date of Policy, and all interest charged thereon, over liens, encumbrances and other matters affecting the title, the existence of which are Known to the Insured at:
(a) The time of the advance; or
(b) The time a modification is made to the terms of the Insured Mortgage which changes the rate of interest charged, if the rate of Interest is greater as a result of the modification than it would have been before the modification. This exclusion does not limit the coverage provided in Covered Risk 8.
9. The failure of the residential structure, or any portion thereof to have been constructed before, on or after Date of Policy in accordance with applicable building codes. This exclusion does not apply to violations of building codes if notice of the violation appears in the Public Records at Date of Policy.
GOOD FUNDS LAW

CALIFORNIA ASSEMBLY BILL 512 ("AB512") IS EFFECTIVE ON JANUARY 1, 1990. UNDER AB512, NORTH AMERICAN TITLE COMPANY, INC. ("NORTH AMERICAN TITLE COMPANY, INC.") MAY ONLY MAKE FUNDS AVAILABLE FOR MONETARY DISPERSAL IN ACCORDANCE WITH THE FOLLOWING RULES:

* SAME DAY AVAILABILITY - DISBURSEMENT ON THE DATE OF DEPOSIT IS ALLOWED ONLY WHEN FUNDS ARE DEPOSITED TO NORTH AMERICAN TITLE COMPANY ("NORTH AMERICAN TITLE COMPANY, INC.") IN CASH OR BY ELECTRONIC TRANSFER (WIRE). BEAR IN MIND THAT CASH WILL BE ACCEPTED FROM CUSTOMERS ONLY UNDER SPECIAL CIRCUMSTANCES AS INDIVIDUALLY APPROVED BY MANAGEMENT.

* NEXT DAY AVAILABILITY - IF FUNDS ARE DEPOSITED TO NORTH AMERICAN TITLE COMPANY, INC. BY CASHIER'S CHECKS, CERTIFIED CHECKS, OR TELLER'S CHECKS, DISBURSEMENT MAY BE ON THE NEXT BUSINESS DAY FOLLOWING DEPOSIT. A "TELLER'S CHECK" IS ONE DRAWN BY AN INSURED FINANCIAL INSTITUTION AGAINST ANOTHER INSURED FINANCIAL INSTITUTION (E.G., A SAVINGS AND LOAN FUNDING WITH A CHECK AGAINST A FDIC INSURED BANK).

* 2-5 DAY AVAILABILITY (REGULATION CC). IF THE DEPOSIT IS MADE BY CHECKS OTHER THAN THOSE DESCRIBED IN PARAGRAPHS 1 AND 2 ABOVE, DISBURSEMENT MAY OCCUR ON THE DAY WHEN FUNDS MUST BE MADE AVAILABLE TO DEPOSITORS UNDER FEDERAL RESERVE REGULATION CC. THIS REQUIRES A "HOLD" ON SOME CHECKS OF 2-5 DAYS OR LONGER IN SOME INSTANCES. PERSONAL CHECKS, DRAFTS, PRIVATE CORPORATION AND COMPANY CHECKS, AND FUNDING CHECKS FROM MORTGAGE COMPANIES THAT ARE NOT TELLER'S CHECKS ARE AMONG THOSE CHECKS SUBJECT TO SUCH HOLDS. (FOR FURTHER DETAILS, CONSULT CHAPTER 598, STATUTES OF 1989.)

NOTE: THE ABOVE GUIDELINES ARE IN CONFORMITY WITH THOSE ISSUED BY THE DEPARTMENT OF INSURANCE FOR ALL CALIFORNIA TITLE INSURANCE AND CALIFORNIA TITLE COMPANIES.

PRELIMINARY CHANGE OF OWNERSHIP REPORT

NOTE: ON OR AFTER JULY 1, 1985, THE COUNTY RECORDER'S OFFICE WILL CHARGE, IN ADDITION TO THE REGULAR CHARGES, AN EXTRA $20.00 RECORDING FEE, UNLESS A DOCUMENT EVIDENCING A CHANGE OF OWNERSHIP IS ACCOMPANIED BY A PRELIMINARY CHANGE OF OWNERSHIP REPORT. IN LIEU OF SAID REPORT, SIGNED BY THE TRANSFEREE, THE RECORDER WILL ACCEPT AN AFFIDAVIT THAT THE TRANSFEREE IS NOT A RESIDENT OF CALIFORNIA. TITLE BILLINGS WILL BE ADJUSTED TO REFLECT SUCH ADDITIONAL FEES WHEN APPLICABLE.

IRS FORM 1099

BEFORE THE TRANSACTION CONTEMPLATED BY THIS REPORT CAN BE CLOSED, THE SELLER/BORROWER MUST FURNISH A TAXPAYER IDENTIFICATION NUMBER TO US SO THAT WE CAN FILE AN IRS FORM 1099, OR ITS EQUIVALENT, WITH THE INTERNAL REVENUE SERVICE. THIS PROCEDURE IS REQUIRED BY SECTION 6045 OF THE INTERNAL REVENUE SERVICE.

NOTICE OF A WITHHOLDING REQUIREMENT

State Withholding & Reporting for closings after January 1, 2003: Under California Law (Rev & Tax Code 18662) a buyer may be required to withhold and deliver to the Franchise Tax Board (FTB) an amount equal to 3.33% of the sales price in the case of disposition of California real property interest ("Real Property") by either: 1) a seller who is an individual or when the disbursement instructions authorize the proceeds to be sent to a financial intermediary of seller, or 2) a corporate seller that has no permanent place of business in California. Buyer may be subject to a penalty (equal to the greater of 10% of the amount required to be withheld or $500) for failing to withhold and transmit the funds to FTB in the time required by law. Buyer is not required to withhold any amount and will not be subject to penalty for failure to withhold if: a) the sale price of the Real Property does not exceed $100,000; b) the seller executes a written certificate under penalty of perjury certifying that the seller is a corporation with a permanent place of business in California; or c) the seller, who is an individual, executes a written certificate under penalty of perjury certifying one of the following: (i) the Real Property was the seller's principal residence (as defined in IRC 121); (ii) the Real property was last used as seller's principal residence without regard to time period; (iii) the Real Property is or will be exchanged for property of like kind (as defined in IRC 1031) and that the seller intends to acquire property similar or related in service or use so as to be eligible for nonrecognition of gain for California income tax purposes under IRC 1031; (iv) the Real Property has been compulsorily or involuntarily converted (as defined in IRC 1033) and the seller intends to acquire property similar or related in service or use as to be eligible for nonrecognition of gain for California income tax purposes under IRC 1033; or (v) the Real Property sale will result in loss of California income tax purposes. Seller is subject to penalties for knowingly filing a fraudulent certificate for the purpose of avoiding the withholding laws. FTB may grant reduced withholding and waivers from withholding on a case-by-case basis for corporations or other entities.

For additional information regarding California withholding, contact the Franchise Tax Board at (toll free) 888-792-4900, or by e-mail at urws@ftb.ca.gov or visit their website at www.ftb.ca.gov.
NATCO NOTES:

DON’T DELAY YOUR CLOSE OF ESKROW! IF ANY OF THE FOLLOWING ITEMS AFFECT YOUR TRANSACTION, PLEASE NOTIFY YOUR ESKROW OFFICER AS SOON AS POSSIBLE.

I. Ongoing Construction
The Title Company will require, as a minimum, the following prior to insuring:
A. Valid Notice of Completion verified by inspection and expiration of 60 days from recordation of said notice or;
B. Approved Indemnities from Borrower/Seller, approved financial statement not over one year old and a waiver of lien rights from the general contractor.
C. The Title Company may also require proof of payment of subcontractors, indemnity and financial statement from the general contractor, a copy of the contract and the with-holding of a sum of money, to cover the contract until the mechanics lien period has expired, with which to pay filed mechanics liens, or other assurances to be determined on a case by case basis.

II. Bankruptcy
The Title Company will require, as a minimum, the following prior to insuring:
A. The bankruptcy case be closed or,
B. An order from the bankruptcy court verifying the transaction, with a demand placed into escrow by the trustee.
C. Escrow may not close until 15 days have elapsed from the order and the file has been checked to verify that there are no objections to said order.

III. Abstracts of Judgment, Liens, Tax Liens
The Title Company will require, as a minimum, the following prior to insuring:
A. Proof that the buyer/seller is not the same party as on the recorded liens.
B. This is accomplished by the buyer/seller/borrower completely filling out and signing a statement of information.
C. The items are to paid off in escrow.
D. The items are to be subordinated to the new transaction.

IV. Community Property
California is a community property state:
A. A quitclaim from one spouse to another must specifically quitclaim any community property interest.
B. An interlocutory decree of divorce specifically granting the property to one spouse is sufficient if a final decree is issued and recorded in the county.

DID YOU KNOW?
Any of the following situations could cause a substantial delay in close of escrow. The earlier we are made aware of potential problems, the earlier the issues can be dealt with to ensure a smooth and timely close of your transaction.

- Are your principals trying to accomplish a tax deferred exchange? If so, have they chosen an intermediary and who is it?
- Will any of the principals be using a Power of Attorney?
- Are any of the vested owners deceased or in any way incapacitated?
- Do all of the principals who will be signing have a current photo I.D. or Driver’s License?
- Are the sellers of this transaction residents of California?
- Has there been a change in marital status of any of the vested owners or will we be adding anyone to title, i.e. co-signers, additional insured, etc.?
- Is the property currently vested in a trust or will the new buyer/borrower vest in a trust?
- Are any of the trustees of the trust deceased or incapacitated?
- Will this transaction involve a short sale?
- Will there be a new entity formed, i.e. partnership, corporation?
- Will all of the principals be available to sign or will we be Federal Expressing documents to another state/country? If so, where?

If you have any other information which may be useful to us, please contact your escrow officer as soon as possible. Our goal is to make your transaction as easy and trouble-free as possible. We appreciate your business and hope that you find North American Title Company your company of choice for all of your title and escrow needs.
We at the North American Title Group family of companies take your privacy very seriously. This Notice is being
given on behalf of each of the companies listed below1 (the “North American Title Companies”), as well as on
behalf of North American Advantage Insurance Services, LLC. It explains our policy regarding the personal
information of our customers and our former customers.

OUR PRIVACY POLICIES AND PRACTICES

The North American Title Companies

1. Information North American Title Companies collect, and the sources from which we collect it: On
forms related to your real estate transaction, North American Title Companies collect personal information that
you, our affiliates or third parties have provided to us, such as, for example, your name, address, and sale price of
your home. All of the information that we collect is referred to in this notice as “NAT Collected Information”.

2. What information North American Title Companies disclose to our affiliates: From time to time, as
permitted by law, the North American Title Companies may share NAT Collected Information with each other and
with North American Advantage Insurance Services, LLC (“NAAIS”) about customers and former customers. You
may ask us not to share NAT Collected Information among the North American Title Companies and NAAIS by
writing to us and letting us know at: North American Title Group, Inc., Attention: Corporate Affairs, 700 NW 107th
Avenue, Suite 300, Miami, FL 33172. Your request will not affect NAT Collected Information that the North
American Title Companies are otherwise permitted by law to share, such as, in certain circumstances, NAT
Collected Information related to our experiences and transactions with you.

3. What information North American Title Companies disclose to third parties:

   • If permitted by federal law and the law of your state, we may disclose some or all of the following
     information to companies that perform marketing services on our behalf and to certain unaffiliated
     insurance companies with whom we have joint marketing agreements: your name, current
     address, purchased property address, and closing date.

   • We also may share NAT Collected Information about customers and former customers with other
     unaffiliated third parties, as permitted by law. For example, NAT Collected Information may be
     shared in certain circumstances (A) with companies involved in servicing or processing your
     account (B) with insurance regulatory authorities, and (C) with law enforcement officials, to
     protect against fraud or other crimes.

4. Your right to access your personal information: You have the right to review your personal information
that we have on record about you. If you wish to review that information, please contact the local North American
Title Company office identified on the title insurance product to which this notice is attached or where you
received this notice and give us a reasonable time to make that information available to you. If you believe any
information is incorrect, notify us, and if we agree, we will correct it. If we disagree, we will advise you in writing
why we disagree.
North American Advantage Insurance Services, LLC

1. Information North American Advantage Insurance Services, LLC ("NAAIS") collect and sources from which we collect it: NAAIS collects personal information about you from you, our affiliates, or third parties on forms related to your transaction with NAAIS or a North American Title Company, such as your name, address, or information about the property that is or will be insured. We also receive information from companies, which compile and distribute public records. All of the information that NAAIS collects, as described in this paragraph, is referred to in this notice as "NAAIS Collected Information."

2. Information NAAIS may disclose to its affiliates or third parties: NAAIS may disclose NAAIS Collected Information about you or others without your permission as permitted or required by law, including to the following types of institutions for the reasons described:
   
   • To a third party or an affiliate if the disclosure will enable that party to perform a business, professional or insurance function for us in connection with an insurance transaction involving you.

   • To an insurance institution, agent, or credit reporting agency in order to detect or prevent criminal activity, fraud or misrepresentation in connection with an insurance transaction.

   • To an insurance institution, agent, or credit reporting agency for either this agency or the entity to whom we disclose the information to perform a function in connection with an insurance transaction involving you.

   • To an insurance regulatory authority, law enforcement, or other governmental authority in order to protect our interests in preventing or prosecuting fraud, or if we believe that you have conducted illegal activities.

3. Your right to access and amend your personal information: You have the right to request access to the personal information that we record about you. Your right includes the right to know the source of the information and the identity of the persons, institutions or types of institutions to whom we have disclosed such information within two (2) years prior to your request. Your right includes the right to view such information and copy it in person, or request that a copy of it be sent to you by mail (for which we may charge you a reasonable fee to cover our costs). Your right also includes the right to request corrections, amendments or deletions of any information in our possession. The procedures that you must follow to request access to or an amendment of your information are as follows:

   To obtain access to your information: You should submit a request in writing to: North American Title Group, Inc., Attention: Corporate Affairs, 700 NW 107th Avenue, Suite 300, Miami, FL 33172. The request should include your name, address, social security number, telephone number, and the recorded information to which you would like access. The request should state whether you would like access in person or a copy of the information sent to you by mail. Upon receipt of your request, we will contact you within 30 business days to arrange providing you with access in person or the copies that you have requested.

   To correct, amend, or delete any of your information: You should submit a request in writing to: North American Title Group, Inc., Attention: Corporate Affairs, 700 NW 107th Avenue, Suite 300, Miami, FL 33172. The request should include your name, address, social security number, telephone number, the specific information in dispute, and the identity of the document or record that contains the disputed information. Upon receipt of your request, we will contact you within 30 business days to notify you either that we have made the correction, amendment or deletion, or that we refuse to do so and the reasons for the refusal, which you will have an opportunity to challenge.
SECURITY PROCEDURES

We restrict access to NAT Collected Information and NAAIS Collected Information about you to individuals who need to know such information in order to provide you with your product or service. We maintain physical, electronic and procedural safeguards to protect NAT Collected Information and NAAIS Collected Information about you.

*******

CHANGES TO OUR PRIVACY POLICY

This Notice reflects our privacy policy as of February 1, 2008. We reserve the right to change, modify or amend this policy at any time. Please check our Privacy Policy periodically for changes.


*******

ACKNOWLEDGEMENT

Your receipt of a copy of the preliminary report, commitment, your policy of insurance, or escrow documents accompanied by this Notice will constitute your acknowledgment of receipt of this Privacy Policy Notice.
Exhibit C – U.S.G.S 7.5-Minute Topographic Map Santa Rosa Quadrangle
Exhibit D – Site Photographs
Exhibit E – Historic Topographic and Aerial Photographs
Burbank Housing Development Corp
1990 and 2030 Burbank Ave
Santa Rosa, CA 95407

Inquiry Number: 2861935.4
September 03, 2010

EDR Historical Topographic Map Report

Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com
EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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Burbank Housing Development Corp
1990 and 2030 Burbank Ave
Santa Rosa, CA 95407

Inquiry Number: 2861935.5
September 08, 2010

The EDR Aerial Photo Decade Package

Environmental Data Resources Inc
EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR’s professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Thank you for your business.
Please contact EDR at 1-800-352-0050 with any questions or comments.

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Date EDR Searched Historical Sources:
Aerial Photography September 08, 2010

Target Property:
1990 and 2030 Burbank Ave
Santa Rosa, CA 95407

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Certified Sanborn® Map Report

Site Name: Burbank Housing Development
Client Name: Harris & Lee Env. Sciences
1990 and 2030 Burbank Ave
Santa Rosa, CA 95407
2508 Saddleback Court
Santa Rosa, CA 95401
EDR Inquiry # 2861935.3 Contact: Bob Harris

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Harris & Lee Env. Sciences were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Burbank Housing Development Corp
Address: 1990 and 2030 Burbank Ave
City, State, Zip: Santa Rosa, CA 95407
Cross Street: 
P.O. #: 1990 2030 Burbank Ave
Project: Burbank
Certification #: D5FE-4C68-BE4F

UNMAPPED PROPERTY
This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Limited Permission To Make Copies
Harris & Lee Env. Sciences (the client) is permitted to make up to THREE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR’s copyright policy, a copy of which is available upon request.

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Burbank Housing Development Corp
1990 Burbank Ave
Santa Rosa, CA 95407

Inquiry Number: 2861935.6
September 03, 2010
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

**City Directory Report.** Three important enhancements have been made to the EDR City Directory Abstract:

1. **Executive Summary.** The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.

2. **Page Images.** Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.

3. **Findings Listed by Location.** Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

**Options for Selecting Adjoining Properties.** Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched:

1. **You Select Addresses and EDR Selects Addresses.** Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.

2. **EDR Selects Addresses.** Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.

3. **You Select Addresses.** Use this method for research based solely on the addresses you select or enter into the system.

4. **Hold City Directory Research Option.** If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1930 through 2006. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

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MAP INFORMATION
The Overview Map provides information on nearby property parcel boundaries. Properties on this map that were selected for research are listed below the map.

SELECTED ADDRESSES
The following addresses were selected by the client. Detailed findings are contained in the findings section. An "X" indicates where information was identified.

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### EXECUTIVE SUMMARY

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TARGET PROPERTY INFORMATION

ADDRESS
1990 Burbank Ave
Santa Rosa, CA  95407

FINDINGS DETAIL
Target Property research detail.

No Addresses Found
FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BURBANK

2017 BURBANK

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2057 BURBANK

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2155 BURBANK

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## TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

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## ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

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Burbank Housing Development Corp
1990 and 2030 Burbank Ave
Santa Rosa, CA 95407

Inquiry Number: 2661935.2s
September 03, 2010
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Detail Map                      3
Map Findings Summary           4
Map Findings                    7
Orphan Summary                 40
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Physical Setting Source Summary A-2
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Thank you for your business.
P lease contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA’s Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

**TARGET PROPERTY INFORMATION**

**ADDRESS**

1980 AND 2030 BURBANK AVE  
SANTA ROSA, CA 95407

**COORDINATES**

Latitude (North): 38.418400 - 38° 25’ 6.2”
Longitude (West): 122.732700 - 122° 43’ 57.7”
Universal Transverse Mercator: Zone 10
UTM X (Meters): 523334.9
UTM Y (Meters): 4252066.0
Elevation: 125 ft. above sea level

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

Target Property Map: 38122-D6 SANTA ROSA, CA  
Most Recent Revision: 1999

West Map: 38122-D7 SEBASTOPOL, CA  
Most Recent Revision: 1980

**AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: 2008, 2005
Source: USDA

**TARGET PROPERTY SEARCH RESULTS**

The target property was not listed in any of the databases searched by EDR.

**DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR’s search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

**STANDARD ENVIRONMENTAL RECORDS**

**Federal NPL site list**

NPL_________________________ National Priority List
EXECUTIVE SUMMARY

Proposed NPL……………….. Proposed National Priority List Sites
NPL LIENS…………………. Federal Superfund Liens

Federal Delisted NPL site list
Delisted NPL………………. National Priority List Deletions

Federal CERCLIS list
FEDERAL FACILITY………… Federal Facility Site Information listing

Federal CERCLIS NFRAP site List
CERC-NFRAP……………… CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list
CORRACTS……………… Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list
RCRA-TSDF……………… RCRA - Treatment, Storage and Disposal

Federal RCRA generators list
RCRA-LQG……………….. RCRA - Large Quantity Generators
RCRA-SQG……………….. RCRA - Small Quantity Generators
RCRA-CESQG…………… RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries
US ENG CONTROLS……….. Engineering Controls Sites List
US INST CONTROL……….. Sites with Institutional Controls

Federal ERNS list
ERNS…………………. Emergency Response Notification System

State- and tribal - equivalent NPL
RESPONSE……………….. State Response Sites

State and tribal landfill and/or solid waste disposal site lists
SWF/LF………………….. Solid Waste Information System

State and tribal leaking storage tank lists
LUST………………….. Geotracker’s Leaking Underground Fuel Tank Report
INDIAN LUST…………… Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists
UST……………………….. Active UST Facilities
AST……………………….. Aboveground Petroleum Storage Tank Facilities
EXECUTIVE SUMMARY

INDIAN UST.......................... Underground Storage Tanks on Indian Land
FEMA UST.......................... Underground Storage Tank Listing

State and tribal voluntary cleanup sites
INDIAN VCP.......................... Voluntary Cleanup Priority Listing
VCP.......................... Voluntary Cleanup Program Properties

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists
US BROWNFIELDS............. A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites
DEBRIS REGION 9............. Torres Martinez Reservation Illegal Dump Site Locations
ODL.......................... Open Dump Inventory
WMUDS/SWAT ..................... Waste Management Unit Database
SWRCY.......................... Recycler Database
HAULERS.......................... Registered Waste Tire Haulers Listing
INDIAN ODL..................... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites
US CDL.......................... Clandesline Drug Labs
HIST Cal-Sites ...................... Historical Calsites Database
Toxic Pits.......................... Toxic Pits Cleanup Act Sites
CDL.................................. Clandesline Drug Labs
US HIST CDL..................... National Clandesline Laboratory Register

Local Lists of Registered Storage Tanks
CA FID UST..................... Facility Inventory Database
HIST UST.......................... Hazardous Substance Storage Container Database
SWEEPS UST..................... SWEEPS UST Listing

Local Land Records
LIENS 2......................... CERCLA Lien Information
LUCIS............................. Land Use Control Information System
LIENS............................. Environmental Liens Listing
DEED............................. Deed Restriction Listing

Records of Emergency Release Reports
HMIRS.............................. Hazardous Materials Information Reporting System
CHMIRS............................. California Hazardous Material Incident Report System
LDS................................. Land Disposal Sites Listing
MCS................................. Military Cleanup Sites Listing

Other Ascertainable Records
RCRA-NonGen.................. RCRA - Non Generators
EXECUTIVE SUMMARY

DOT OPS. Incident and Accident Data
DOD. Department of Defense Sites
FUDS. Formerly Used Defense Sites
CONSENT. Superfund (CERCLA) Consent Decrees
ROD. Records Of Decision
UMTRA. Uranium Mill Tailings Sites
MINES. Mines Master Index File
TRIS. Toxic Chemical Release Inventory System
TSCA. Toxic Substances Control Act
FTTS. FIFRA TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS. FIFRA/TSCA Tracking System Administrative Case Listing
SST. Section 7 Tracking Systems
ICIS. Integrated Compliance Information System
PADS. PCB Activity Database System
MLTS. Material Licensing Tracking System
RADINFO. Radiation Information Database
FINDS. Facility Index System/Facility Registry System
RAATS. RCRA Administrative Action Tracking System
CA WDS. Waste Discharge System
NPDES. NPDES Permits Listing
Cortese. “Cortese” Hazardous Waste & Substances Sites List
HIST CORTESE. Hazardous Waste & Substance Site List
DRYCLEANERS. Cleaner Facilities
WIP. Well Investigation Program Case List
HAZNET. Facility and Manifest Data
EMI. Emissions Inventory Data
INDIAN RESERV. Indian Reservations
SCRD DRYCLEANERS. State Coalition for Remediation of Drycleaners Listing
PROC. Certified Processors Database
MMMP. Medical Waste Management Program Listing
COAL ASH DOE. Steam-Electric Plan Operation Data
COAL ASH EPA. Coal Combustion Residues Surface Impoundments List
HWIT. Registered Hazardous Waste Transporter Database
HWP. EnviroStor Permitted Facilities Listing
FINANCIAL ASSURANCE. Financial Assurance Information Listing
PCB TRANSFORMER. PCB Transformer Registration Database

EDR PROPRIETARY RECORDS

EDR Proprietary Records
Manufactured Gas Plants. EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.
EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list
CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 01/29/2010 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

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<td>WEST AVENUE MERCURY</td>
<td>1363 WEST AVENUE</td>
<td>NE 1/4 - 1/2 (0.423 mi.)</td>
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State- and tribal - equivalent CERCLIS
ENVIROSTOR: The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/09/2010 has revealed that there are 12 ENVIROSTOR sites within approximately 1 mile of the target property.

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<td>FOUCHE BROS Status: Refer: RWQCB</td>
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<td>841 MCMINN AVENUE</td>
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<td>WESCOTTS AUTO &amp; TRUCK PARTS INC Status: Refer: RWQCB</td>
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**EXECUTIVE SUMMARY**

**Equal/Higher Elevation**

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**Lower Elevation**

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<td>2450 STONEY POINT ROAD</td>
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**State and tribal leaking storage tank lists**

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 07/23/2010 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

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**ADDITIONAL ENVIRONMENTAL RECORDS**

**Local Lists of Hazardous waste / Contaminated Sites**

SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category, depending on the level of threat to public health and safety or the environment they pose.

A review of the SCH list, as provided by EDR, and dated 08/09/2010 has revealed that there is 1 SCH site within approximately 0.25 miles of the target property.

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<td>NNW 1/8 - 1/4 (0.184 mi.)</td>
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</table>
EXECUTIVE SUMMARY

Other Ascertainable Records

CA BOND EXP. PLAN: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

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<tr>
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Notify 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board’s Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 12 Notify 65 sites within approximately 1 mile of the target property.

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<tr>
<td>ANDY BONDI</td>
<td>1834 ROSE AVENUE</td>
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<td>RCRA-SQG, FINDS</td>
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<td>BURT STREET DEVELOPMENT</td>
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### State and tribal registered storage tank lists

- UST                  | 0.250           | 0 0         | NR   | NR        | NR        | 0       |
- AST                  | 0.250           | 0 0         | NR   | NR        | NR        | 0       |
- INDIAN UST           | 0.250           | 0 0         | NR   | NR        | NR        | 0       |
- FEMA UST             | 0.250           | 0 0         | NR   | NR        | NR        | 0       |

### State and tribal voluntary cleanup sites

- INDIAN VCP           | 0.500           | 0 0         | 0    | NR        | NR        | 0       |
- VCP                  | 0.500           | 0 0         | 0    | NR        | NR        | 0       |

### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

- US BROWNFIELDS       | 0.500           | 0 0         | 0    | NR        | NR        | 0       |

#### Local Lists of Landfill / Solid Waste Disposal Sites

- DEBRIS REGION 9     | 0.500           | 0 0         | 0    | NR        | NR        | 0       |
- ODI                 | 0.500           | 0 0         | 0    | NR        | NR        | 0       |
- VMUDS/SWAT          | 0.500           | 0 0         | 0    | NR        | NR        | 0       |
- SWRCY               | 0.500           | 0 0         | 0    | NR        | NR        | 0       |
- HAULERS             | TP              | NR          | NR   | NR        | NR        | 0       |
- INDIAN ODI          | 0.500           | 0 0         | 0    | NR        | NR        | 0       |

#### Local Lists of Hazardous waste / Contaminated Sites

- US CDL              | TP              | NR          | NR   | NR        | NR        | NR      | NR  | 0             |
- HIST Cal-Sites      | 1.000           | 0 0         | 0    | 0         | NR        | 0       |     |               |
- SCH                 | 0.250           | 0 1         | NR   | NR        | NR        | 1       |     |               |
- Toxic Pits          | 1.000           | 0 0         | 0    | 0         | NR        | 0       |     |               |
- CDL                 | TP              | NR          | NR   | NR        | NR        | 0       |     |               |
- US HIST CDL         | TP              | NR          | NR   | NR        | NR        | 0       |     |               |

#### Local Lists of Registered Storage Tanks

- CA FID UST          | 0.250           | 0 0         | NR   | NR        | NR        | 0       |
- HIST UST            | 0.250           | 0 0         | NR   | NR        | NR        | 0       |
- SWEEPS UST          | 0.250           | 0 0         | NR   | NR        | NR        | 0       |

#### Local Land Records

- LIENS 2             | TP              | NR          | NR   | NR        | NR        | NR      | NR  | 0             |
- LUCIS               | 0.500           | 0 0         | 0    | NR        | NR        | 0       |     |               |
- LIENS               | TP              | NR          | NR   | NR        | NR        | 0       |     |               |
- DEED                | 0.500           | 0 0         | 0    | NR        | NR        | 0       |     |               |

#### Records of Emergency Release Reports

- HMIIRS              | TP              | NR          | NR   | NR        | NR        | NR      | NR  | 0             |
- CHMIIRS             | TP              | NR          | NR   | NR        | NR        | 0       |     |               |
- LDS                 | TP              | NR          | NR   | NR        | NR        | 0       |     |               |
## MAP FINDINGS SUMMARY

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## EDR PROPRIETARY RECORDS

### EDR Proprietary Records

Manufactured Gas Plants

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### NOTES:
- **TP** = Target Property
- **NR** = Not Requested at this Search Distance
- Sites may be listed in more than one database
### A1
**DUTTON & ASSOCIATES**

**WNW**
1850 BURBANK AVENUE
SANTA ROSA, CA 95407

< 1/8
0.092 mi.
487 ft.

Site 1 of 2 in cluster A

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### A2
**DUTTON & ASSOCIATES**

**NW**
1800 BURBANK AVENUE
SANTA ROSA, CA 95407

< 1/8
0.107 mi.
568 ft.

Site 2 of 2 in cluster A

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NEW ROSELAND AREA ELEMENTARY SCHOOL
1683 BURBANK AVENUE
SANTA ROSA, CA 95407

Relative: SCH
Lower
Actual: 124 ft.

Facility ID: 70000113
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 11.4
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Mitigation And Brownfield Reuse Program
Project Manager: NEAL HUTCHISON
Supervisor: Mark Malinowski
Division Branch: Sacramento
Site Code: 204162
Assembly: 6
Senate: 2
Special Program Status: Not reported
Status: Active
Status Date: 8/25/2005
Restricted Use: NO
Funding: School District
Latitude: 38.42215419000001
Longitude: -122.7354375
APN: 125-321-001
Past Use: AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: 31001, 30001, 30006, 30007, 30008, 30013, 30019, 30022, 30027
Confirmed COC: 30019,30022-NO,31001,30027-NO,30001-NO,30006-NO,30007-NO,30008-NO,30013
Potential Description: OTH, SED, SOIL, SV, UE
Alias Name: New Burbank Elementary School
Alias Type: Alternate Name
Alias Name: Roseland Elementary School
Alias Type: Alternate Name
Alias Name: 125-321-001
Alias Type: APN
Alias Name: New Burbank Elementary School
Alias Type: Former Project ID
Alias Name: 110033611731
Alias Type: EPA (FRS #)
Alias Name: 204162
Alias Type: Project Code (Site Code)
Alias Name: 70000113
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 2006-06-16 00:00:00
Comments: Approved the Workplan conditional on submition of a work notice.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
NEW ROSELAND AREA ELEMENTARY SCHOOL  (Continued)

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 2007-07-17 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 2007-06-29 00:00:00
Comments: DTSC approved the SSI Workplan. Project manager gave verbal permission to District to implement SSI Workplan on 6/21/07.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 2008-04-07 00:00:00
Comments: DTSC approved the SSI report with a further action determination for lead around the perimeters of two buildings and PAHs in sediments in Roseland Creek, next to Burbank Avenue.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 2009-03-09 00:00:00
Comments: RAW approved for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 2007-09-21 00:00:00
Comments: 4.15 Form and Partial Site Approval are uploaded under the "Partial Site Approval" activity.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 2008-10-31 00:00:00
Comments: The DTSC public participation specialist sent the project manager a copy of the formatted Fact Sheet (minus the dates) for the Removal Action Workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 2008-08-29 00:00:00
Comments: PPS sent a PDF of the Final Community Profile.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 2008-10-27 00:00:00
Comments: Final Public Notice completed and uploaded.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 2009-09-12 00:00:00
Comments: Not reported
NEW ROSELAND AREA ELEMENTARY SCHOOL  (Continued)  S107736874

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Partial Site Approval
Completed Date: 2007-09-21 00:00:00
Comments: DTSC issued a partial site approval and approved CDE Form SFPD 4.15.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 2007-09-05 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 2009-03-09 00:00:00
Comments: NOE for RAW approved.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Land Use Restriction
Schedule Due Date: 2008-08-01 00:00:00
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: School Cleanup
Site Type Detailed: School
Acres: 11.4
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: NEAL HUTCHISON
Supervisor: Mark Malinowski
Division Branch: Sacramento
Facility ID: 70000113
Site Code: 204162
Assembly: 6
Senate: 2
Special Program: Not reported
Status: Active
Status Date: 8/25/2005
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: School District
Latitude: 38.422154190000001
Longitude: -122.7354375
APN: 125-321-001
Past Use: AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential OCC: 31001, 30001, 30006, 30007, 30008, 30013, 30019, 30022, 30027
Confirmed OCC: 30019, 30022-NO, 31001, 30027-NO, 30001-NO, 30006-NO, 30007-NO, 30008-NO, 30013
Potential Description: OTH, SED, SOIL, SV, UE
Alias Name: New Burbank Elementary School
NEW ROSELAND AREA ELEMENTARY SCHOOL  (Continued)  

Alias Type:  Alternate Name  
Alias Name:  Roseland Elementary School  
Alias Type:  Alternate Name  
Alias Name:  125-321-001  
Alias Type:  APN  
Alias Name:  New Burbank Elementary School  
Alias Type:  Former Project ID  
Alias Name:  110033611731  
Alias Type:  EPA (FRS #)  
Alias Name:  204162  
Alias Type:  Project Code (Site Code)  
Alias Name:  70000113  
Alias Type:  Envirostor ID Number  

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Completed Sub Area Name:  Not reported  
Completed Document Type:  Preliminary Endangerment Assessment Workplan  
Completed Date:  2006-06-16 00:00:00  
Comments:  Approved the Workplan conditional on submittal of a work notice.  

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Preliminary Endangerment Assessment Report  
Completed Date:  2007-07-17 00:00:00  
Comments:  Not reported  

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Supplemental Site Investigation Workplan  
Completed Date:  2007-06-29 00:00:00  
Comments:  DTSC approved the SSI Workplan. Project manager gave verbal permission to District to implement SSI Workplan on 6/21/07.  

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Supplemental Site Investigation Report  
Completed Date:  2008-04-07 00:00:00  
Comments:  DTSC approved the SSI report with a further action determination for lead around the perimeters of two buildings and PAHs in sediments in Roseland Creek, next to Burbank Avenue.  

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Removal Action Workplan  
Completed Date:  2009-03-09 00:00:00  
Comments:  RAW approved for implementation.  

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  4.15 Request  
Completed Date:  2007-09-21 00:00:00  
Comments:  4.15 Form and Partial Site Approval are uploaded under the "Partial Site Approval" activity.  

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Fact Sheets  

S107736874
NEW ROSELAND AREA ELEMENTARY SCHOOL  (Continued)  

Completed Date:  2008-10-31 00:00:00  
Comments:  The DTSC public participation specialist sent the project manager a copy of the formatted Fact Sheet (minus the dates) for the Removal Action Workplan.

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Community Profile  
Completed Date:  2008-08-29 00:00:00  
Comments:  PPS sent a PDF of the Final Community Profile.

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Public Notice  
Completed Date:  2008-10-27 00:00:00  
Comments:  Final Public Notice completed and uploaded.

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Environmental Oversight Agreement  
Completed Date:  2005-09-12 00:00:00  
Comments:  Not reported

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  Partial Site Approval  
Completed Date:  2007-09-21 00:00:00  
Comments:  DTSC issued a partial site approval and approved CDE Form SFPD 4.15.

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  School Cleanup Agreement  
Completed Date:  2007-09-05 00:00:00  
Comments:  Not reported

Completed Area Name:  PROJECT WIDE  
Completed Sub Area Name:  Not reported  
Completed Document Type:  CEQA - Notice of Exemption  
Completed Date:  2009-03-09 00:00:00  
Comments:  NOE for RAW approved.

Future Area Name:  Not reported  
Future Sub Area Name:  Not reported  
Future Document Type:  Not reported  
Future Due Date:  Not reported  
Schedule Area Name:  PROJECT WIDE  
Schedule Sub Area Name:  Not reported  
Schedule Document Type:  Land Use Restriction  
Schedule Due Date:  2008-08-01 00:00:00  
Schedule Revised Date:  Not reported
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<td>NEAL HUTCHISON</td>
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MEADOW VIEW ELEMENTARY SCHOOL EXPANSION (Continued)

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 2009-10-08 00:00:00
Comments: DTSC approved the PEA workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 2010-07-13 00:00:00
Comments: PM approved the PEA report with a further action determination. See uploaded approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 2010-06-24 00:00:00
Comments: Completed CP sent to PM via e-mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 2009-05-08 00:00:00
Comments: Signed by Perf Mnger 05/8/09

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 2010-12-14 00:00:00
Schedule Revised Date: Not reported

ENVIROSTOR:
Site Type: School Cleanup
Site Type Detailed: School
Acres: 1
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: NEAL HUTCHISON
Supervisor: Mark Malinowski
Division Branch: Sacramento
Facility ID: 60001076
Site Code: 204232
Assembly: Not reported
Senate: Not reported
Special Program: Not reported
Status: Active
Status Date: 4/8/2009
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: School District
Latitude: 38.413060000000002
Longitude: -122.73029
MEADOW VIEW ELEMENTARY SCHOOL EXPANSION  (Continued)

APN: 043-072-007
Past Use: AGRICULTURAL - ORCHARD, AGRICULTURAL - ROW CROPS, RESIDENTIAL AREA
Potential COC: 31001, 30001, 30003, 30004, 30006, 30007, 30008, 30010, 30013, 30023, 30024, 30025
Confirmed COC: 30001-NO, 30003-NO, 30004-NO, 30024-NO, 30025-NO, 31001, 30023-NO, 30013-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO
Potential Description: SOIL
Alias Name: Meadow View Elementary School Extension
Alias Type: Alternate Name
Alias Name: 043-072-007
Alias Type: APN
Alias Name: 204232
Alias Type: Project Code (Site Code)
Alias Name: 60001076
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement Application
Completed Date: 2009-04-09 00:00:00
Comments: Received EOA Application and prepared agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 2009-05-15 00:00:00
Comments: PM requested a PEA-SSI workplan to complete delineation of the contamination identified in the Phase II report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 2009-10-08 00:00:00
Comments: DTSC approved the PEA workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 2010-07-13 00:00:00
Comments: PM approved the PEA report with a further action determination. See uploaded approval letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 2010-06-24 00:00:00
Comments: Completed CP sent to PM via e-mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 2009-05-08 00:00:00
Comments: Signed by Perf Mnger 05/8/09

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
MEADOW VIEW ELEMENTARY SCHOOL EXPANSION (Continued)  S109548372

Future Due Date: Not reported
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 2010-12-14 00:00:00
Schedule Revised Date: Not reported

5  WEST AVENUE MERCURY  CERCLIS  1012210104
NE  1363 WEST AVENUE  CAN000908799
1/4-1/2  SANTA ROSA, CA
0.423 mi.  2234 ft.
2234 ft.

Relative: Higher
CERCLIS:
Site ID: 0908799
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

CERCLIS Site Contact Name(s):
Contact Name: Steven Calanog
Contact Tel: (415) 972-3075
Contact Title: On-Scene Coordinator (OSC)

Site Description: Not reported

CERCLIS Assessment History:
Action: REMOVAL
Date Started: 01/13/10
Date Completed: Not reported
Priority Level: Not reported

6  FOUCHE BROS  ENVIROSTOR  S100183334
ESE  2290 DUTTON AVENUE  N/A
1/2-1  SANTA ROSA, CA  95401
0.510 mi.  2692 ft.
2692 ft.

Relative: Higher
ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Berkeley
Facility ID: 49500004
Site Code: Not reported
Assembly: 7
Senate: 2
Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 9/27/1993
FOUCHE BROS (Continued)

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7  OPTICAL COATING LABORATORY INC
WSW  STORMDRAIN @ NORTHPOINT
1/2-1  SANTA ROSA, CA 93582
0.514 mi.  2713 ft.
2713 ft.

Relative:
Lower

Actual:
112 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582
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<td>ENVIROSTOR</td>
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REDWOOD CHEMICAL  
2450 STONEY POINT ROAD  
SANTA ROSA, CA  95407  

Relative: ENVIROSTOR  
Lower: Evaluation  
Actual: Evaluation  

Acres: 1  
NPL: NO  
Regulatory Agencies: CITY OF SANTA ROSA  
Lead Agency: CITY OF SANTA ROSA  
Program Manager: VIRGINIA LASKY  
Supervisor: Karen Toth  
Division Branch: Berkeley  
Facility ID: 49280008  
Site Code: Not reported  
Assembly: 7  
Senate: 2  
Special Program: EPA - PASI  
Status: Refer: Local Agency  
Status Date: 3/25/2008  
Restricted Use: NO  
Site Mgmt. Req.: NONE SPECIFIED  
Funding: EPA Grant  
Latitude: 38.41388606999998  
Longitude: -122.7375282  
APN: 125-521-009, 125-521-010  
Past Use: NONE SPECIFIED  
Potential COC: NONE SPECIFIED  
Confirmed COC: NONE SPECIFIED  
Potential Description: NONE SPECIFIED  
Alias Name: BUDS MANUFACTURING COMPANY  
Alias Type: Alternate Name  
Alias Name: 125-521-009  
Alias Type: APN  
Alias Name: 125-521-010  
Alias Type: APN  
Alias Name: 49280008  
Alias Type: Envirosior ID Number  

Completed Info:  
Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 1988-04-25 00:00:00  
Comments: SITE SCREENING DONE POSS ONITE CONTAM  

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Site Screening  
Completed Date: 2008-03-25 00:00:00  
Comments: Investigations and cleanup were conducted and a No Further Action letter was issued by the Santa Rosa Fire Dept. on May 26, 1998.  

Completed Area Name: PROJECT WIDE  
Completed Sub Area Name: Not reported  
Completed Document Type: Discovery  
Completed Date: 1988-02-23 00:00:00
REDWOOD CHEMICAL (Continued) 1000592019

Comments: FACILITY IDENTIFIED RWQCB COMPLAINT 3/13/80 - DISCH TO DITCH
Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

B9 ANDY BONDI Notify 65 S100179511
NW 1834 ROSE AVENUE N/A
1/2-1 SANTA ROSA, CA 93582
0.604 mi. Site 1 of 2 in cluster B
3190 ft.

Relative: Notify 65:
Higher:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582

Actual: 126 ft.

B10 ANDY BONDI Notify 65 S100179510
NW 1834 ROSE AVENUE N/A
1/2-1 SANTA ROSA, CA 93582
0.604 mi. Site 2 of 2 in cluster B
3190 ft.

Relative: Notify 65:
Higher:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93582

Actual: 126 ft.

MCMINN AVENUE CA BOND EXP. PLAN S100833365
NNW ROSELAND AREA N/A
1/2-1 SANTA ROSA, CA 95401
0.660 mi. 3486 ft.

Relative: CA BOND EXP. PLAN:
Higher:
CA BOND EXP. PLAN:
Responsible Party: DETAILED SITE EXPENDITURE PLAN
Project Revenue Source Company: Not reported
Project Revenue Source Addr: Not reported
Project Revenue Source City, St,Zip: Not reported
Project Revenue Source Desc: Currently there are no identified responsible parties. Therefore, Bond funds
will be used to investigate and remediate the site. If during the investigation
RPs are identified, DHS will pursue appropriate cost recovery activities. This
site is currently not on the NPL, nor does it appear to be a likely candidate

TC2861935.2s Page 19
MCMINN AVENUE (Continued)

for NPL listing in the near future. Therefore, it is unlikely that federal funds will become available for this site.

Site Description: Ground water contamination in privately-owned wells has been discovered. The area where investigation activities have been focused is designated as the Local Study Area and is defined as the area within a 2000-foot radius of the intersection of McMinn Avenue and Sebastopol Road. More than 50 potential sources of contamination have been identified, although responsible parties have not yet been identified.

Hazardous Waste Desc: Initial sampling and analysis of water from private wells, conducted by the Sonoma County Public Health Department and Regional Water Quality Control Board, indicated ground water contaminated by fuels and associated compounds and solvents. Seven off-site private wells, which were sampled by DHS in the fall of 1986, were found to have concentrations of contaminants at or exceeding State drinking water action levels. Contaminants which were found to exceed State action levels include benzene, 1,2-dichloroethane (DCE), tetrachloroethene (TCE) and vinyl chloride. Fuels have been found floating in monitoring wells, 1,2-dichloroethene (DCE), tetrachloroethene (TCE) and vinyl chloride. Fuels have been found floating in monitoring wells.

Threat To Public Health & Env: The primary threat is from consumption of contaminated well water. Migration of ground water contaminants may result in the contamination of additional wells.

Site Activity Status: The preliminary site assessment and investigation (PSAI) has been completed and the final report was issued in July, 1987. Soil gas sampling was conducted in August, 1987. Implementation of the first Phase of the RI started June, 1988. The work to be completed in this Phase includes drilling, installation and sampling of ground water monitoring wells, drilling stratigraphic boreholes and aquifer testing. Data generated will be used to identify sources of contamination and potential RPs and to determine the direction of future work. The RWQCB has completed underground tank investigations at several locations in the study area.
### MCMINN AVENUE (Continued)

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**Completed Info:**

| Completed Area Name                        | PROJECT WIDE               |
| Completed Sub Area Name                    | Not reported               |
| Completed Document Type                    | Site Screening             |
| Completed Date                             | 1988-04-21 00:00:00        |
| Comments                                   | Not reported               |

| Completed Area Name                        | PROJECT WIDE               |
| Completed Sub Area Name                    | Not reported               |
| Completed Document Type                    | Fact Sheets                |
| Completed Date                             | 1986-08-01 00:00:00        |
| Comments                                   | Fact Sheet                 |

| Completed Area Name                        | PROJECT WIDE               |
| Completed Sub Area Name                    | Not reported               |
| Completed Document Type                    | Fact Sheets                |
| Completed Date                             | 1988-08-01 00:00:00        |
| Comments                                   | Fact Sheet                 |

| Completed Area Name                        | PROJECT WIDE               |
| Completed Sub Area Name                    | Not reported               |
| Completed Document Type                    | Fact Sheets                |
| Completed Date                             | 1992-06-01 00:00:00        |
| Comments                                   | Fact Sheet                 |

| Completed Area Name                        | PROJECT WIDE               |
| Completed Sub Area Name                    | Not reported               |
| Completed Document Type                    | Fact Sheets                |
| Completed Date                             | 1995-12-01 00:00:00        |
| Comments                                   | Fact Sheet                 |

| Completed Area Name                        | PROJECT WIDE               |
| Completed Sub Area Name                    | Not reported               |
| Completed Document Type                    | Fact Sheets                |
| Completed Date                             | 1995-12-15 00:00:00        |
| Comments                                   | Fact Sheet                 |

<p>| Completed Area Name                        | PROJECT WIDE               |
| Completed Sub Area Name                    | Not reported               |
| Completed Document Type                    | Fact Sheets                |
| Completed Date                             | 1987-05-19 00:00:00        |
| Comments                                   | Site Update                |</p>
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<th>Completed Date</th>
<th>Comments</th>
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<td>1994-12-12 00:00:00</td>
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<td>1993-05-21 00:00:00</td>
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<td>Facility identified: BEP – fuel oil 440,000 ug/l &amp; gasoline detected in well. No RP identified. Site Screening Done: BEP site.</td>
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**Completed Area Name:** PROJECT WIDE

**Completed Sub Area Name:** Not reported

**Completed Document Type:**
- Other Report
- Remedial Investigation Report
- Preliminary Assessment Report
- * Discovery
- Correspondence

**Future Area Name:** Not reported

**Future Sub Area Name:** Not reported

**Future Document Type:** Not reported

**Future Due Date:** Not reported

**Schedule Area Name:** Not reported
MCMINN AVENUE (Continued)

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

13
West
121 GIFFEN AVENUE
SANTA ROSA, CA 93582
0.682 mi.
3601 ft.
Relative: Notify 65
Lower
Date Reported: Not reported
Staff Initials: Not reported
Actual: 112 ft.
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562

14
NNW
WESCOTTS AUTO & TRUCK PARTS INC
1569 SEBASTOPOL RD
SANTA ROSA, CA 95407
0.692 mi.
3656 ft.
Relative: CA WDS
Higher
Facility ID: 1 49100306
Facility Type: Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number: CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion: 1
Facility Telephone: Not reported
Agency Name: WESCOTTS BOB
Agency Address: 3664 FIR RIDGE DR
Agency City, St, Zip: SANTA ROSA 95403
Agency Contact: BOB WESCOTTS
Agency Telephone: Not reported
Agency Type: Private
SIC Code: 3714
SIC Code 2: Not reported
Primary Waste: Stormwater Runoff
Primary Waste Type: Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: No reclamation requirements associated with this facility.
POTW: The facility is not a POTW
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order

TC2861935.2s Page 24
WESCOTTS AUTO & TRUCK PARTS INC (Continued)

should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

NPDES:
Npdes Number: Not reported
Facility Status: Active
Agency Id: 50429
Region: 1
Regulatory Measure Id: 178788
Order No: 97-03-DWQ
Regulatory Measure Type: Storm water industrial
Place Id: 272019
WDID: 1491000306
Program Type: INDSTW
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 1992-03-06 00:00:00
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Wescotts, Bob
Discharge Address: 1569 Sebastopol Rd
Discharge City: Santa Rosa
Discharge State: CA
Discharge Zip: 95407

HAZNET:
Gepaid: CAL000016435
Contact: --
Telephone: --
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1569 SEASTOPOL RD
Mailing City,St,Zip: SANTA ROSA, CA 954070000
Gen County: Sonoma
TSD EPA ID: CAD980884183
TSD County: Sacramento
Waste Category: Other organic solids
Disposal Method: Transfer Station
Tons: 2.12
Facility County: Not reported

Gepaid: CAL000016435
Contact: BOB WESCOTT (PRESIDENT)
Telephone: 0000000000
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1569 SEASTOPOL RD
Mailing City,St,Zip: SANTA ROSA, CA 954070000
WESCOTTS AUTO & TRUCK PARTS INC (Continued)

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<thead>
<tr>
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<tbody>
<tr>
<td>TSD EPA ID</td>
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<td>TSD County</td>
<td>Yolo</td>
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<tr>
<td>Waste Category</td>
<td>Aqueous solution with 10% or more total organic residues</td>
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<td>Facility County</td>
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Gepaid: CAL00016435  
Contact: BOB WESCOTT (PRESIDENT)  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1569 SEBASTOPOL RD  
Mailing City,St,Zip: SANTA ROSA, CA 954070000  
Gen County: Sonoma  
TSD EPA ID: CAD09452657  
TSD County: San Mateo  
Waste Category: Unspecified organic liquid mixture  
Disposal Method: Recycler  
Tons: .3961  
Facility County: Sonoma

Gepaid: CAL00016435  
Contact: BOB WESCOTT (PRESIDENT)  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1569 SEBASTOPOL RD  
Mailing City,St,Zip: SANTA ROSA, CA 954070000  
Gen County: Sonoma  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Unspecified aqueous solution  
Disposal Method: Recycler  
Tons: .4587  
Facility County: Sonoma

Gepaid: CAL00016435  
Contact: BOB WESCOTT (PRESIDENT)  
Telephone: 0000000000  
Facility Addr2: Not reported  
Mailing Name: Not reported  
Mailing Address: 1569 SEBASTOPOL RD  
Mailing City,St,Zip: SANTA ROSA, CA 954070000  
Gen County: Sonoma  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Waste Category: Unspecified oil-containing waste  
Disposal Method: Not reported  
Tons: .4587  
Facility County: Sonoma

[Click this hyperlink while viewing on your computer to access 6 additional CA_HAZNET: record(s) in the EDR Site Report.]
WESCOTTS AUTO & TRUCK PARTS INC (Continued)  S101482592

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Berkeley
Facility ID: 49500010
Site Code: Not reported
Assembly: 7
Senate: 2
Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 9/27/1993
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.429101879999997
Longitude: -122.7370952
APN: 125-081-032
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-081-032
Alias Type: APN
Alias Name: 49500010
Alias Type: Envirositor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-22 00:00:00
Comments: SITE SCREENING DONE SIC CODE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-04-06 00:00:00
Comments: FACILITY IDENTIFIED PHONE DIR 1987

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported
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<tr>
<td>WILSON BAUGH ENTERPRISES</td>
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<tr>
<td>805 SEBASTOPAL</td>
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<tr>
<td>SANTA ROSA, CA 93582</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
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| Site Type: | Historical |
| Site Type Detailed: | * Historical |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | NONE SPECIFIED |
| Lead Agency: | NONE SPECIFIED |
| Program Manager: | Not reported |
| Supervisor: | Referred - Not Assigned |
| Division Branch: | Berkeley |
| Facility ID: | 49330001 |
| Site Code: | Not reported |
| Assembly: | 7 |
| Senate: | 2 |
| Special Program: | * Rural County Survey Program |
| Status: | Refer: RWQCB |
| Status Date: | 9/27/1993 |
| Restricted Use: | NO |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Funding: | Not reported |
| Latitude: | 38.428742819699997 |
VACANT (FORMALY AALMETCO) ( Continued)

Longitude: -122.73891450000001
APN: 125-082-025
Past Use: NONE SPECIFIED
Potential COC: Not reported
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-082-025
Alias Type: APN
Alias Name: 49330001
Alias Type: Envirosior ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-21 00:00:00
Comments: SITE SCREENING DONE POSS ONSITE CONTAM

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-02-10 00:00:00
Comments: FACILITY IDENTIFIED SONOMA COUNTY EH - CHROME PLATING FLUID DISP ON TO SOIL

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

17 GREG'S AUTOMOTIVE
ESE DUTTON
1/2-1 SANTA ROSA, CA 93582
0.711 mi.
3754 ft.

Relative:
Higher Notify 65:

Actual:
134 ft.

Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562
## 18. ACME AUTO WRECKERS INC.

**Address:** 1885 SEBASTOPOL RD

**City, State, Zip:** SANTA ROSA, CA 95407

**Distance:** 0.725 mi.

**Elevation:** 3828 ft.

### CA WDS:

**Facility ID:** 491003958

**Facility Type:** Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)

**Facility Status:** Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

**NPDES Number:** CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board

### Subregion:

1

### Facility Telephone:

Not reported

### Facility Contact:

MICHAEL J. MARQUIS

### Agency Name:

ACME AUTO WRECKERS

### Agency Address:

1885 SEBASTOPOL RD

### Agency City, St, Zip:

SANTA ROSA 95407

### Agency Contact:

MICHAEL J. MARQUIS

### Agency Telephone:

Not reported

### Agency Type:

Private

### SIC Code:

5015

### SIC Code 2:

Not reported

### Primary Waste:

Stormwater Runoff

### Primary Waste Type:

Inert/Influent or Solid Wastes that do not contain soluble pollutants or organic wastes and have little adverse impact on water quality. Such wastes could cause turbidity and siltation. Uncontaminated soils, rubble and concrete are examples of this category.

### Secondary Waste:

Not reported

### Secondary Waste Type:

Not reported

### Design Flow:

0

### Baseline Flow:

0

### Reclamation:

No reclamation requirements associated with this facility.

### POTW:

The facility is not a POTW.

### Treat To Water:

Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All naurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.

### Complexity:

Category C - Facilities having no waste treatment systems, such as cooling water dischargers or those who must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

### NPDES:

**NPDES Number:** Not reported

**Facility Status:** Active

**Agency Id:** 696

**Region:** 1

**Regulatory Measure Id:** 178811

**Order No:** 97-03-DWQ

**Regulatory Measure Type:** Storm water industrial

**Place Id:** 204380

**WDID:** 491003958
ACME AUTO WRECKERS INC. (Continued)  S100183332

Program Type: INDSTW
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 1992-04-03 00:00:00
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Marquis, Michael J
Discharge Address: 1885 Sebastopol Rd
Discharge City: Santa Rosa
Discharge State: CA
Discharge Zip: 95407

CORTESCE:
Region: CORTESCE
Facility County Code: 49
Reg By: WBC&D
Reg id: 1B1SR128NUG

ENVIROSTOR:
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Berkeley
Facility ID: 49500002
Site Code: Not reported
Assembly: 7
Senate: 2
Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 9/27/1993
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.428322379999997
Longitude: -122.7399736
APN: 125-071-015
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-071-015
Alias Type: APN
Alias Name: 49500002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1988-04-22 00:00:00
Comments: SITE SCREENING DONE POSS ONSITE CONTAM

Completed Area Name: PROJECT WIDE
ACME AUTO WRECKERS INC. (Continued)

Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1988-02-09 00:00:00
Comments: FACILITY IDENTIFIED IND DIR 1965, RWQCB/PROP65 AUTO WASTES DISCH TO GROUND

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

19 S.W. BROWN
North 1175 SEBASTOPOL ROAD
1/2-1 SANTA ROSA, CA 95401
0.731 ml. 3860 ft.

Relative: ENVIROSTOR: S101482589
Higher Historical
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO

Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Berkeley
Facility ID: 49500003
Site Code: Not reported
Assembly: 7
Senate: 2

Special Program: * Rural County Survey Program
Status: Refer: RWQCB
Status Date: 9/27/1993
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: Not reported
Latitude: 38.429568490000001
Longitude: -122.733495
APN: 125-091-030
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 125-091-030
Alias Type: APN
Alias Name: 49500003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
S.W. BROWN (Continued)  

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<td>Not reported</td>
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<td>Schedule Revised Date:</td>
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---

20 COAST AUTO WRECKING  
949 SEBASTOPOL RD  
SANTA ROSA, CA 95401

Relative: 
North  
1/2-1  
0.781 mi.  
4016 ft.

<table>
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<td>Actual</td>
<td>139 ft.</td>
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ENVIROSTOR:  
Historical  
* Historical  
Not reported  
NONE SPECIFIED  
Berkeley  
49500001  
Not reported  
7  
2  
* Rural County Survey Program  
Refer: RWQCB  
10/8/1993  
NO  
NONE SPECIFIED  
Not reported  
38.430326749999999  
-122.7307517  
125-101-049  
NONE SPECIFIED  
NONE SPECIFIED  
NONE SPECIFIED  
125-101-049  
APN  
49500001  
Envirostor ID Number
COAST AUTO WRECKING  (Continued)  S101482588

Completed Info:

- Completed Area Name: PROJECT WIDE
- Completed Sub Area Name: Not reported
- Completed Document Type: Site Screening
- Completed Date: 1988-04-21 00:00:00
- Comments: SITE SCREENING DONE POSS ONSITE CONTAM

- Completed Area Name: PROJECT WIDE
- Completed Sub Area Name: Not reported
- Completed Document Type: * Discovery
- Completed Date: 1988-02-18 00:00:00
- Comments: FACILITY IDENTIFIED POLK DIR 1958

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

21 SEBASTOPAL B.P. Notify 65 S100179311
North 760 SEBASTOPAL N/A
1/2-1 SANTA ROSA, CA 93582
0.762 ml. N/A
4022 ft.

Relative: Notify 65:
Higher Date Reported: Not reported
Staff Initials: Not reported
Actual:
140 ft.
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562

---

22 EXCHANGE BANK DATA CENTER Notify 65 U000067321
NNE 330 SEBASTOPAL N/A
1/2-1 SANTA ROSA, CA 93582
0.770 ml. N/A
4067 ft.

Relative: Notify 65:
Higher Date Reported: Not reported
Staff Initials: Not reported
Actual:
141 ft.
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562
23 SANTA ROSA CIRCUITS
NE 35 / 48 WEST BARHAM AVENUE
1/2-1 SANTA ROSA, CA 95407
0.891 mi.
4705 ft.

Relative: 
Higher
Actual: 146 ft.

ENVIROSTOR:
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.5

NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: VIRGINIA LASKY
Supervisor: Karen Toth
Division Branch: Berkeley
Facility ID: 49360001
Site Code: Not reported
Assembly: 7
Senate: 2
Special Program: EPA - PASI
Status: Refer: RWQCB
Status Date: 3/25/2008
Restricted Use: NO
Site Mgmt. Req.: NONE SPECIFIED
Funding: EPA Grant
Latitude: 38.426290000000002
Longitude: -122.72202
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: Not reported
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 49360001
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 1987-03-18 00:00:00
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 2008-03-25 00:00:00
Comments: Soil cleanup was conducted and approved by the the Santa Rosa Fire
Department and the North Coast Water Board on March 23 and March 30,
2005 respectively. Soil was contaminated with motor oil and lead.
Groundwater results for volatile organic compounds and selected
metals were below the Maximum Contaminant Levels (MCLs).

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 1987-03-18 00:00:00
Comments: FACILITY IDENTIFIED INFO ACQUIRED FROM DHS FILES. SITE SCREENING DONE
MORE INFO NEEDED TO DETERMINE THE HAZARD POTENTIAL. CONTACT: EILEEN
KORTAS FIRE DEPT., 955 SONOMA AVE., SANTA ROSA, CA. (707) 576-5311.
SANTA ROSA CIRCUITS (Continued)

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

24 AM/PM MINI MART
ESE HEARN AVENUE 440
1/2-1 SANTA ROSA, CA
0.911 mi. 4808 ft.

Relative: CORTESE
Higher Region: CORTESE
Facility County Code: 49
Actual Reg: LTNKA
Reg Id: 1TSR150

LUST:
Region: STATE
Global Id: T0609700647
Latitude: 38.414206947
Longitude: -122.717746665
Case Type: LUST Cleanup Site
Status: Open - Remediation
Status Date: 2005-01-26 00:00:00
Lead Agency: NORTH COAST RWQCB (REGION 1)
Case Worker: JAT
Local Agency: SANTA ROSA, CITY OF
RB Case Number: 1TSR150
LOC Case Number: Not reported
File Location: Regional Board
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: In April 1990, one 6,000-gallon and two 10,000-gallon underground storage tanks (USTs) were removed from the north side of the site. Soil samples collected from the excavation pit, at depths ranging between 16 and 20 feet below ground surface (bgs), showed total petroleum hydrocarbons as gasoline (TPH-g) and benzene at maximum concentrations of 15 mg/kg and 2.3 mg/kg, respectively. Groundwater and soil remediation has been conducted at the site since 2005, using shallow groundwater extraction from an interceptor trench, deeper-zone extraction from extraction wells, and several multi-phase extraction events using a mobile extraction unit. Quarterly groundwater monitoring events were conducted at the site from 1999 until mid 2009. Semi-annual groundwater sampling and analysis at selected monitoring wells were implemented in mid 2009.

LUST REG 1:
Region: 1
Facility ID: 1TSR150
Staff Initials: JAT
AM/PM MINI MART (Continued)  S100236216

SLIC:
Region: STATE
Facility Status: Completed - Case Closed
Status Date: 2009-07-03 00:00:00
Global Id: T0609765986
Lead Agency: NORTH COAST RWQCB (REGION 1)
Lead Agency Case Number: Not reported
Latitude: 38.4143
Longitude: -122.7199
Case Type: Cleanup Program Site
Case Worker: ZZZ
Local Agency: Not reported
RB Case Number: 1NSR150
File Location: Regional Board
Potential Media Affected: Soil, Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: This site is an active gasoline station and the location of an open investigation of prior gasoline releases from USTs at the site. On March 17, 2008, a tanker truck operated by Atlantic Richfield Company (ARCO) spilled approximately 30 gallons of gasoline when a moving car contacted the fill hose as fuel was being transferred to an underground storage tank. The spilled gasoline flowed over an area approximately 25 feet wide and 50 feet long, adjacent to at least three groundwater monitoring wells. The gasoline spill was contained on the site and mopped up with adsorbent materials on the night of the spill. On March 18, 2008, Regional Water Board staff inspected the area of the spill. Staff observed that the ground surface in the area spill contained damaged and cracked asphalt. On March 19, 2008, Regional Water Board staff conducted an additional inspection and observed that gasoline-saturated materials remained on the ground surface and that gasoline odors were present near the damaged asphalt surface. On April 3, 2008, one soil boring was advanced to a depth of 40 inches below ground surface in the area of the most extensively damaged asphalt paving. Soil samples were collected at 1 foot and 3 feet below ground surface for analysis of petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, MTBE and ethanol. The laboratory results showed that all constituents of concern were below laboratory detection levels.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 93562
25  SANTA ROSA PLATING WORKS  ENVIROSTOR  S105754203
NE  80 BARHAM AVE  N/A
1/2-1  SANTA ROSA, CA  95407
0.918 mi.  N/A
4649 ft.

Relative:  
Higher  
Actual:  
147 ft.

ENVIROSTOR:
Site Type:  Evaluation
Site Type Detailed:  Evaluation
Acres:  Not reported
NPL:  NO
Regulatory Agencies:  NONE SPECIFIED
Lead Agency:  NONE SPECIFIED
Program Manager:  Not reported
Supervisor:  Barbara Cook
Division Branch:  Berkeley
Facility ID:  49340003
Site Code:  Not reported
Assembly:  7
Senate:  2
Special Program:  * Rural County Survey Program
Status:  No Further Action
Status Date:  1/7/2000
Restricted Use:  NO
Site Mgmt. Req.:  NONE SPECIFIED
Funding:  Not reported
Latitude:  38.426283140000002
Longitude:  -122.7194726
APN:  037-151-028
Past Use:  NONE SPECIFIED
Potential COC:  NONE SPECIFIED
Confirmed COC:  NONE SPECIFIED
Potential Description:  NONE SPECIFIED
Alias Name:  037-151-028
Alias Type:  APN
Alias Name:  49340003
Alias Type:  Envirostor ID Number
Completed Info:
Completed Area Name:  PROJECT WIDE
Completed Sub Area Name:  Not reported
Completed Document Type:  Site Screening
Completed Date:  1988-05-13 00:00:00
Comments:  SITE SCREENING DONE SIC CODE - FORMERLY LOCATED AT 1465 SANTA ROSA AVENUE

Completed Area Name:  PROJECT WIDE
Completed Sub Area Name:  Not reported
Completed Document Type:  * Discovery
Completed Date:  1988-04-20 00:00:00
Comments:  FACILITY IDENTIFIED IND 1957

Future Area Name:  Not reported
Future Sub Area Name:  Not reported
Future Document Type:  Not reported
Future Due Date:  Not reported
Schedule Area Name:  Not reported
Schedule Sub Area Name:  Not reported
Schedule Document Type:  Not reported
Schedule Due Date:  Not reported
SANTA ROSA PLATING WORKS  (Continued)  
Schedule Revised Date:  Not reported

C26  RESIDENCE  
ENE  1267 CORBY AVE  
1/2-1  SANTA ROSA, CA  95407  
0.952 mi.  
5027 ft.  Site 1 of 3 in cluster C

Notify 65:  
Date Reported:  Not reported  
Staff Initials:  Not reported  
Board File Number:  Not reported  
Facility Type:  Not reported  
Discharge Date:  Not reported  
Incident Description:  95407-6112

C27  RESIDENCE  
ENE  1267 CORBY AVE  
1/2-1  SANTA ROSA, CA  95407  
0.952 mi.  
5027 ft.  Site 2 of 3 in cluster C

Notify 65:  
Date Reported:  19920729  
Staff Initials:  crj  
Board File Number:  0T2920002  
Facility Type:  misc  
Discharge Date:  Not reported  
Incident Description:  95407-6112Water sample results from domestic well indicate 22 ppb dichlorodifluoromethane present.

C28  RESIDENCE  
ENE  1267 CORBY AVE  
1/2-1  SANTA ROSA, CA  95407  
0.952 mi.  
5027 ft.  Site 3 of 3 in cluster C

Notify 65:  
Date Reported:  19920729  
Staff Initials:  crj  
Board File Number:  0T2920002  
Facility Type:  misc  
Discharge Date:  Not reported  
Incident Description:  95407-6112Water sample results from domestic well indicate 22 ppb dichlorodifluoromethane present.
To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

**Federal NPL site list**

**NPL:** National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA’s Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

- **Date of Government Version:** 03/31/2010
- **Source:** EPA
- **Date Data Arrived at EDR:** 04/02/2010
- **Telephone:** N/A
- **Date Made Active in Reports:** 04/12/2010
- **Last EDR Contact:** 07/14/2010
- **Number of Days to Update:** 10
- **Next Scheduled EDR Contact:** 10/25/2010
- **Data Release Frequency:** Quarterly

**NPL Site Boundaries**

**Sources:**

EPA’s Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

- **EPA Region 1**
  - **Telephone:** 617-918-1143
- **EPA Region 6**
  - **Telephone:** 214-655-6659
- **EPA Region 3**
  - **Telephone:** 215-814-5418
- **EPA Region 7**
  - **Telephone:** 913-551-7247
- **EPA Region 4**
  - **Telephone:** 404-562-8033
- **EPA Region 8**
  - **Telephone:** 303-312-6774
- **EPA Region 5**
  - **Telephone:** 312-886-6666
- **EPA Region 9**
  - **Telephone:** 415-947-4246
- **EPA Region 10**
  - **Telephone:** 206-553-8665

**Proposed NPL:** Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

- **Date of Government Version:** 03/31/2010
- **Source:** EPA
- **Date Data Arrived at EDR:** 04/02/2010
- **Telephone:** N/A
- **Date Made Active in Reports:** 04/12/2010
- **Last EDR Contact:** 07/14/2010
- **Number of Days to Update:** 10
- **Next Scheduled EDR Contact:** 10/25/2010
- **Data Release Frequency:** Quarterly

**NPL LIENS:** Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

- **Date of Government Version:** 10/15/1991
- **Source:** EPA
- **Date Data Arrived at EDR:** 02/02/1994
- **Telephone:** 202-564-4267
- **Date Made Active in Reports:** 03/30/1994
- **Last EDR Contact:** 09/18/2010
- **Number of Days to Update:** 56
- **Next Scheduled EDR Contact:** 11/29/2010
- **Data Release Frequency:** No Update Planned
Federal Delisted NPL site list

DELISTED NPL: Federal Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(a), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/31/2010  Source: EPA
Date Data Arrived at EDR: 04/02/2010  Telephone: N/A
Date Made Active in Reports: 04/12/2010  Last EDR Contact: 07/14/2010
Number of Days to Update: 10  Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 01/29/2010  Source: EPA
Date Data Arrived at EDR: 02/09/2010  Telephone: 703-412-9810
Date Made Active in Reports: 04/12/2010  Last EDR Contact: 09/02/2010
Number of Days to Update: 82  Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA's Federal Facilities Restoration and Redevelopment Office is involved in cleanup activities.

Date of Government Version: 06/23/2009  Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010  Telephone: 703-603-8704
Date Made Active in Reports: 02/10/2010  Last EDR Contact: 07/21/2010
Number of Days to Update: 26  Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time.

This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 06/23/2009  Source: EPA
Date Data Arrived at EDR: 09/02/2009  Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009  Last EDR Contact: 09/02/2010
Number of Days to Update: 19  Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.
Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2010 Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/19/2010 Telephone: (415) 495-8896
Date Made Active in Reports: 05/17/2010 Last EDR Contact: 02/19/2010
Number of Days to Update: 87 Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010 Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/19/2010 Telephone: (415) 495-8896
Date Made Active in Reports: 05/17/2010 Last EDR Contact: 02/19/2010
Number of Days to Update: 87 Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2010 Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/19/2010 Telephone: (415) 495-8896
Date Made Active in Reports: 05/17/2010 Last EDR Contact: 02/19/2010
Number of Days to Update: 87 Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2010 Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/19/2010 Telephone: (415) 495-8896
Date Made Active in Reports: 05/17/2010 Last EDR Contact: 02/19/2010
Number of Days to Update: 87 Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies
Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List
A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/20/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/14/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls
A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/20/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/14/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 07/09/2010
Date Data Arrived at EDR: 07/09/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 39
Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites
Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/09/2010
Date Data Arrived at EDR: 08/11/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 9
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/11/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database
The Department of Toxic Substances Control’s (DTSC’s) Site Mitigation and Brownfields Reuse Program’s (SMBRP’s) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.
<table>
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<th>Date of Government Version: 08/09/2010</th>
<th>Source: Department of Toxic Substances Control</th>
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<td>Last EDR Contact: 08/11/2010</td>
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<tr>
<td>Number of Days to Update: 9</td>
<td>Next Scheduled EDR Contact: 11/22/2010</td>
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</tr>
</tbody>
</table>

**State and tribal landfill and/or solid waste disposal site lists**

**SWF/LF (SWIS): Solid Waste Information System**

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

<table>
<thead>
<tr>
<th>Date of Government Version: 05/24/2010</th>
<th>Source: Department of Resources Recycling and Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 05/25/2010</td>
<td>Telephone: 916-341-6320</td>
</tr>
<tr>
<td>Date Made Active in Reports: 07/09/2010</td>
<td>Last EDR Contact: 08/24/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 45</td>
<td>Next Scheduled EDR Contact: 12/06/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Quarterly</td>
</tr>
</tbody>
</table>

**State and tribal leaking storage tank lists**

**LUST REG 9: Leaking Underground Storage Tank Report**

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

<table>
<thead>
<tr>
<th>Date of Government Version: 03/01/2001</th>
<th>Source: California Regional Water Quality Control Board San Diego Region (9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 04/23/2001</td>
<td>Telephone: 858-637-5595</td>
</tr>
<tr>
<td>Date Made Active in Reports: 05/21/2001</td>
<td>Last EDR Contact: 09/25/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 28</td>
<td>Next Scheduled EDR Contact: 10/11/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: No Update Planned</td>
</tr>
</tbody>
</table>

**LUST REG 7: Leaking Underground Storage Tank Case Listing**

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

<table>
<thead>
<tr>
<th>Date of Government Version: 02/26/2004</th>
<th>Source: California Regional Water Quality Control Board Colorado River Basin Region (7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 02/26/2004</td>
<td>Telephone: 760-776-8943</td>
</tr>
<tr>
<td>Date Made Active in Reports: 03/24/2004</td>
<td>Last EDR Contact: 09/22/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 27</td>
<td>Next Scheduled EDR Contact: 11/15/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: No Update Planned</td>
</tr>
</tbody>
</table>

**LUST REG 5V: Leaking Underground Storage Tank Case Listing**


<table>
<thead>
<tr>
<th>Date of Government Version: 06/07/2005</th>
<th>Source: California Regional Water Quality Control Board Victorville Branch Office (6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 06/07/2005</td>
<td>Telephone: 760-241-7365</td>
</tr>
<tr>
<td>Date Made Active in Reports: 06/29/2005</td>
<td>Last EDR Contact: 09/14/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 22</td>
<td>Next Scheduled EDR Contact: 11/27/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: No Update Planned</td>
</tr>
</tbody>
</table>

**LUST REG 6L: Leaking Underground Storage Tank Case Listing**

For more current information, please refer to the State Water Resources Control Board's LUST database.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/09/2003</th>
<th>Source: California Regional Water Quality Control Board Lahontan Region (6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 09/10/2003</td>
<td>Telephone: 530-542-5572</td>
</tr>
<tr>
<td>Date Made Active in Reports: 10/07/2003</td>
<td>Last EDR Contact: 09/15/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 22</td>
<td>Next Scheduled EDR Contact: 11/29/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: No Update Planned</td>
</tr>
</tbody>
</table>

**LUST REG 5: Leaking Underground Storage Tank Database**

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2009
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9
Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4634
Last EDR Contact: 07/07/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/07/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/19/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board’s LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 09/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: No Update Planned

LUST: Geotracker’s Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank site, please contact the appropriate regulatory agency.

Date of Government Version: 07/23/2010
Date Data Arrived at EDR: 07/23/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 20
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 07/23/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board’s LUST database.
<table>
<thead>
<tr>
<th>Date of Government Version: 02/14/2005</th>
<th>Source: California Regional Water Quality Control Board Santa Ana Region (8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 02/15/2005</td>
<td>Telephone: 909-782-4496</td>
</tr>
<tr>
<td>Date Made Active in Reports: 03/28/2005</td>
<td>Last EDR Contact: 07/19/2010</td>
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<tr>
<td>Number of Days to Update: 41</td>
<td>Next Scheduled EDR Contact: 11/01/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Varies</td>
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</tbody>
</table>

**SLIC: Statewide SLIC Cases**

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

<table>
<thead>
<tr>
<th>Date of Government Version: 07/23/2010</th>
<th>Source: State Water Resources Control Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 07/23/2010</td>
<td>Telephone: 866-480-1028</td>
</tr>
<tr>
<td>Date Made Active in Reports: 08/12/2010</td>
<td>Last EDR Contact: 07/23/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 20</td>
<td>Next Scheduled EDR Contact: 10/04/2010</td>
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<td></td>
<td>Data Release Frequency: Varies</td>
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</table>

**SLIC REG 1: Active Toxic Site Investigations**

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

<table>
<thead>
<tr>
<th>Date of Government Version: 04/03/2003</th>
<th>Source: California Regional Water Quality Control Board, North Coast Region (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 04/07/2003</td>
<td>Telephone: 707-576-2220</td>
</tr>
<tr>
<td>Date Made Active in Reports: 04/25/2003</td>
<td>Last EDR Contact: 03/02/2010</td>
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<tr>
<td>Number of Days to Update: 18</td>
<td>Next Scheduled EDR Contact: 11/15/2010</td>
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<td>Data Release Frequency: No Update Planned</td>
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</table>

**SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing**

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

<table>
<thead>
<tr>
<th>Date of Government Version: 09/30/2004</th>
<th>Source: Regional Water Quality Control Board San Francisco Bay Region (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 10/20/2004</td>
<td>Telephone: 510-286-0457</td>
</tr>
<tr>
<td>Date Made Active in Reports: 11/19/2004</td>
<td>Last EDR Contact: 09/21/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 30</td>
<td>Next Scheduled EDR Contact: 10/04/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Quarterly</td>
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</table>

**SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing**

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

<table>
<thead>
<tr>
<th>Date of Government Version: 05/18/2006</th>
<th>Source: California Regional Water Quality Control Board Central Coast Region (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 05/18/2006</td>
<td>Telephone: 805-549-3147</td>
</tr>
<tr>
<td>Date Made Active in Reports: 06/15/2006</td>
<td>Last EDR Contact: 07/19/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 28</td>
<td>Next Scheduled EDR Contact: 10/01/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Semi-Annually</td>
</tr>
</tbody>
</table>

**SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing**

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

<table>
<thead>
<tr>
<th>Date of Government Version: 11/17/2004</th>
<th>Source: Region Water Quality Control Board Los Angeles Region (4)</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR: 11/18/2004</td>
<td>Telephone: 213-576-6600</td>
</tr>
<tr>
<td>Date Made Active in Reports: 01/04/2005</td>
<td>Last EDR Contact: 07/07/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 47</td>
<td>Next Scheduled EDR Contact: 10/18/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Varies</td>
</tr>
</tbody>
</table>

**SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing**

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.
SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22
Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 09/16/2010
Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/16/2010
Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 09/16/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/14/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 09/09/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
| Date of Government Version: 05/04/2010 | Source: EPA Region 10 |
| Date Data Arrived at EDR: 05/05/2010 | Telephone: 206-553-2857 |
| Date Made Active in Reports: 05/27/2010 | Last EDR Contact: 08/02/2010 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 11/15/2010 |
| Data Release Frequency: Quarterly | |

**INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land**
A listing of leaking underground storage tank locations on Indian Land.

| Date of Government Version: 02/21/2009 | Source: EPA Region 1 |
| Date Data Arrived at EDR: 02/19/2009 | Telephone: 617-918-1313 |
| Date Made Active in Reports: 03/16/2009 | Last EDR Contact: 08/02/2010 |
| Number of Days to Update: 25 | Next Scheduled EDR Contact: 11/15/2010 |
| Data Release Frequency: Varies | |

**INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land**
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

| Date of Government Version: 05/24/2010 | Source: EPA Region 8 |
| Date Data Arrived at EDR: 05/27/2010 | Telephone: 303-312-6271 |
| Date Made Active in Reports: 08/09/2010 | Last EDR Contact: 08/02/2010 |
| Number of Days to Update: 74 | Next Scheduled EDR Contact: 11/15/2010 |
| Data Release Frequency: Quarterly | |

**INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land**
LUSTs on Indian land in New Mexico and Oklahoma.

| Date of Government Version: 05/03/2010 | Source: EPA Region 6 |
| Date Data Arrived at EDR: 05/05/2010 | Telephone: 214-665-6597 |
| Date Made Active in Reports: 05/27/2010 | Last EDR Contact: 08/02/2010 |
| Number of Days to Update: 22 | Next Scheduled EDR Contact: 11/15/2010 |
| Data Release Frequency: Quarterly | |

**INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land**
LUSTs on Indian land in Florida, Mississippi and North Carolina.

| Date of Government Version: 05/19/2010 | Source: EPA Region 4 |
| Date Data Arrived at EDR: 05/21/2010 | Telephone: 404-562-8677 |
| Date Made Active in Reports: 08/09/2010 | Last EDR Contact: 08/02/2010 |
| Number of Days to Update: 80 | Next Scheduled EDR Contact: 11/15/2010 |
| Data Release Frequency: Semi-Annually | |

**INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land**
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

| Date of Government Version: 05/27/2010 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 05/28/2010 | Telephone: 415-972-3372 |
| Date Made Active in Reports: 08/09/2010 | Last EDR Contact: 08/02/2010 |
| Number of Days to Update: 73 | Next Scheduled EDR Contact: 11/15/2010 |
| Data Release Frequency: Quarterly | |

**INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land**
LUSTs on Indian land in Iowa, Kansas, and Nebraska

| Date of Government Version: 11/04/2009 | Source: EPA Region 7 |
| Date Data Arrived at EDR: 05/04/2010 | Telephone: 913-551-7003 |
| Date Made Active in Reports: 07/07/2010 | Last EDR Contact: 08/11/2010 |
| Number of Days to Update: 84 | Next Scheduled EDR Contact: 11/15/2010 |
| Data Release Frequency: Varies | |

*State and tribal registered storage tank lists*
UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/23/2010 Source: SWRCB
Date Data Arrived at EDR: 07/23/2010 Telephone: 916-480-1028
Date Made Active in Reports: 08/12/2010 Last EDR Contact: 09/23/2010
Number of Days to Update: 20 Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2009 Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/10/2009 Telephone: 916-341-5712
Date Made Active in Reports: 10/01/2009 Last EDR Contact: 07/12/2010
Number of Days to Update: 21 Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 05/04/2010 Source: EPA Region 10
Date Data Arrived at EDR: 05/06/2010 Telephone: 206-553-2857
Date Made Active in Reports: 05/27/2010 Last EDR Contact: 08/02/2010
Number of Days to Update: 22 Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/27/2010 Source: EPA Region 9
Date Data Arrived at EDR: 05/28/2010 Telephone: 415-972-3368
Date Made Active in Reports: 08/09/2010 Last EDR Contact: 08/02/2010
Number of Days to Update: 73 Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/24/2010 Source: EPA Region 8
Date Data Arrived at EDR: 05/27/2010 Telephone: 303-312-6137
Date Made Active in Reports: 08/09/2010 Last EDR Contact: 08/02/2010
Number of Days to Update: 74 Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008 Source: EPA Region 7
Date Data Arrived at EDR: 12/30/2008 Telephone: 913-551-7003
Date Made Active in Reports: 03/16/2009 Last EDR Contact: 09/11/2010
Number of Days to Update: 76 Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).
INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

- Date of Government Version: 02/11/2010
- Source: EPA Region 5
- Telephone: 312-886-6136
- Last EDR Contact: 08/02/2010
- Next Scheduled EDR Contact: 11/15/2010
- Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

- Date of Government Version: 05/19/2010
- Source: EPA Region 4
- Telephone: 404-562-9424
- Last EDR Contact: 08/02/2010
- Next Scheduled EDR Contact: 11/15/2010
- Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

- Date of Government Version: 02/19/2009
- Source: EPA, Region 1
- Telephone: 617-918-1313
- Last EDR Contact: 09/02/2010
- Next Scheduled EDR Contact: 11/15/2010
- Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

- Date of Government Version: 01/01/2010
- Source: FEMA
- Telephone: 202-646-5797
- Last EDR Contact: 07/19/2010
- Next Scheduled EDR Contact: 11/01/2010
- Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

- Date of Government Version: 03/20/2008
- Source: EPA, Region 7
- Telephone: 913-551-7365
- Last EDR Contact: 04/20/2009
- Next Scheduled EDR Contact: 07/20/2009
- Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/06/2010  
Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/11/2010  
Next Scheduled EDR Contact: 11/22/2010  
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing  
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.  
Date of Government Version: 04/02/2008  
Source: EPA, Region 1  
Date Data Arrived at EDR: 04/22/2008  
Telephone: 617-918-1102  
Date Made Active in Reports: 05/19/2008  
Last EDR Contact: 07/08/2010  
Number of Days to Update: 27  
Next Scheduled EDR Contact: 10/18/2010  
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites  
Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities—especially those without EPA Brownfields Assessment Demonstration Pilots—minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/24/2010  
Source: Environmental Protection Agency  
Date Data Arrived at EDR: 06/25/2010  
Telephone: 202-566-2777  
Date Made Active in Reports: 08/17/2010  
Last EDR Contact: 06/25/2010  
Number of Days to Update: 53  
Next Scheduled EDR Contact: 10/11/2010  
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory  
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Source: Environmental Protection Agency  
Date Data Arrived at EDR: 03/09/2004  
Telephone: 800-424-9346  
Date Made Active in Reports: 09/17/2004  
Last EDR Contact: 06/09/2004  
Number of Days to Update: 39  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations  
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Source: EPA, Region 9  
Date Data Arrived at EDR: 05/07/2009  
Telephone: 415-947-4219  
Date Made Active in Reports: 09/21/2009  
Last EDR Contact: 07/28/2010  
Number of Days to Update: 137  
Next Scheduled EDR Contact: 09/20/2010  
Data Release Frequency: Varies
WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000 Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000 Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000 Last EDR Contact: 08/16/2010
Number of Days to Update: 30 Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Quarterly

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/24/2010 Source: Department of Conservation
Date Data Arrived at EDR: 06/25/2010 Telephone: 916-323-3836
Date Made Active in Reports: 07/09/2010 Last EDR Contact: 09/25/2010
Number of Days to Update: 14 Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Quarterly

HAULARS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 07/19/2010 Source: Integrated Waste Management Board
Date Data Arrived at EDR: 07/21/2010 Telephone: 916-341-6422
Date Made Active in Reports: 08/12/2010 Last EDR Contact: 09/23/2010
Number of Days to Update: 22 Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007 Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008 Last EDR Contact: 09/23/2010
Number of Days to Update: 52 Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/07/2010 Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/18/2010 Telephone: 202-307-1000
Date Made Active in Reports: 08/17/2010 Last EDR Contact: 03/08/2010
Number of Days to Update: 50 Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.
**GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Department of Toxic Substance Control</th>
</tr>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
<td>Telephone: 916-323-3400</td>
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<td>Date Made Active in Reports</td>
<td>Last EDR Contact: 02/23/2009</td>
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<tr>
<td>Number of Days to Update</td>
<td>Next Scheduled EDR Contact: 05/26/2009</td>
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<td>Data Release Frequency: No Update Planned</td>
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</table>

**SCH: School Property Evaluation Program**
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Department of Toxic Substances Control</th>
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<td>Number of Days to Update</td>
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<td></td>
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**TOXIC PITS: Toxic Pits Cleanup Act Sites**
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: State Water Resources Control Board</th>
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<td>Date Data Arrived at EDR</td>
<td>Telephone: 916-227-4364</td>
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<tr>
<td>Number of Days to Update</td>
<td>Next Scheduled EDR Contact: 04/27/2009</td>
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<tr>
<td></td>
<td>Data Release Frequency: No Update Planned</td>
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</table>

**CDL: Clandestine Drug Labs**
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: Department of Toxic Substances Control</th>
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<td>Number of Days to Update</td>
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</table>

**US HIST CDL: National Clandestine Laboratory Register**
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

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**Local Lists of Registered Storage Tanks**

**CA FID UST: Facility Inventory Database**
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

<table>
<thead>
<tr>
<th>Date of Government Version</th>
<th>Source: California Environmental Protection Agency</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR</td>
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<td>Date Made Active in Reports</td>
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<tr>
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<td>Next Scheduled EDR Contact: N/A</td>
</tr>
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</table>
UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009  Source: Department of Public Health
Data Date Arrived at EDR: 09/23/2009  Telephone: 707-463-4466
Date Made Active in Reports: 10/01/2009  Last EDR Contact: 06/07/2010
Number of Days to Update: 8  Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990  Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991  Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991  Last EDR Contact: 07/26/2001
Number of Days to Update: 18  Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990’s. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994  Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2006  Telephone: N/A
Date Made Active in Reports: 08/11/2005  Last EDR Contact: 06/03/2005
Number of Days to Update: 35  Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/06/2010  Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/11/2010  Telephone: 202-564-6023
Date Made Active in Reports: 08/09/2010  Last EDR Contact: 08/02/2010
Number of Days to Update: 90  Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/05/2005  Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006  Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007  Last EDR Contact: 08/23/2010
Number of Days to Update: 31  Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Varies

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 07/27/2010  Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/13/2010  Telephone: 916-323-3400
Date Made Active in Reports: 08/20/2010  Last EDR Contact: 07/19/2010
Number of Days to Update: 7  Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Varies
DEED: Deed Restriction Listing
Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program’s oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder’s office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/14/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/07/2010
Number of Days to Update: 22

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/15/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports
HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 04/06/2010
Date Data Arrived at EDR: 04/07/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 50

Source: U.S. Department of Transportation
Telephone: 202-386-4555
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Reporting System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/21/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 30

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 09/02/2010
Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing
The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 07/23/2010
Date Data Arrived at EDR: 07/23/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 20

Source: State Water Quality Control Board
Telephone: 866-480-1028
Last EDR Contact: 07/23/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing
The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 07/23/2010
Date Data Arrived at EDR: 07/23/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 20

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 07/23/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Quarterly

Other Ascertainable Records
**RCRA-NonGen: RCRA - Non Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

<table>
<thead>
<tr>
<th>Date of Government Version: 02/17/2010</th>
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<tr>
<td>Date Data Arrived at EDR: 02/19/2010</td>
<td>Telephone: (415) 495-8895</td>
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<td>Date Made Active in Reports: 05/17/2010</td>
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<td>Data Release Frequency: Varies</td>
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**DOT OPS: Incident and Accident Data**

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

<table>
<thead>
<tr>
<th>Date of Government Version: 01/12/2010</th>
<th>Source: Department of Transporation, Office of Pipeline Safety</th>
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<td>Date Data Arrived at EDR: 02/09/2010</td>
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<td>Date Made Active in Reports: 04/12/2010</td>
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</tr>
<tr>
<td></td>
<td>Data Release Frequency: Varies</td>
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</table>

**DOD: Department of Defense Sites**

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

<table>
<thead>
<tr>
<th>Date of Government Version: 12/31/2005</th>
<th>Source: USGS</th>
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<td></td>
<td>Data Release Frequency: Semi-Annually</td>
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</table>

**FUDS: Formerly Used Defense Sites**

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

<table>
<thead>
<tr>
<th>Date of Government Version: 12/31/2008</th>
<th>Source: U.S. Army Corps of Engineers</th>
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</thead>
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<tr>
<td>Date Data Arrived at EDR: 09/30/2009</td>
<td>Telephone: 202-528-4285</td>
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<td>Data Release Frequency: Varies</td>
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</table>

**CONSENT: Superfund (CERCLA) Consent Decrees**

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

<table>
<thead>
<tr>
<th>Date of Government Version: 04/11/2010</th>
<th>Source: Department of Justice, Consent Decree Library</th>
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<tbody>
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**ROD: Records Of Decision**

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

<table>
<thead>
<tr>
<th>Date of Government Version: 06/01/2010</th>
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</table>
UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 01/05/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/08/2009
Number of Days to Update: 1

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/01/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Varies

MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/07/2010
Date Data Arrived at EDR: 06/09/2010
Date Made Active in Reports: 08/30/2010
Number of Days to Update: 82

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/09/2010
Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 36

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 09/01/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 07/07/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Quarterly

FTTS INSPI: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcement.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Quarterly
HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

| Date of Government Version: 10/19/2006 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/01/2007 | Telephone: 202-564-2501 |
| Date Made Active in Reports: 04/10/2007 | Last EDR Contact: 12/17/2007 |
| Number of Days to Update: 40 | Next Scheduled EDR Contact: 03/17/2008 |
| Data Release Frequency: No Update Planned |

HIST FTTS INSPI: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

| Date of Government Version: 10/19/2006 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 03/01/2007 | Telephone: 202-564-2501 |
| Date Made Active in Reports: 04/10/2007 | Last EDR Contact: 12/17/2008 |
| Number of Days to Update: 40 | Next Scheduled EDR Contact: 03/17/2008 |
| Data Release Frequency: No Update Planned |

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

| Date of Government Version: 12/31/2008 | Source: EPA |
| Date Data Arrived at EDR: 01/06/2010 | Telephone: 202-564-4203 |
| Date Made Active in Reports: 02/10/2010 | Last EDR Contact: 09/16/2010 |
| Number of Days to Update: 35 | Next Scheduled EDR Contact: 11/15/2010 |
| Data Release Frequency: Annually |

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

| Date of Government Version: 04/24/2010 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 04/29/2010 | Telephone: 202-564-5088 |
| Date Made Active in Reports: 05/17/2010 | Last EDR Contact: 06/25/2010 |
| Number of Days to Update: 18 | Next Scheduled EDR Contact: 10/11/2010 |
| Data Release Frequency: Quarterly |

PADS: PCB Activity Database System
PCB Activity Database, PADS identifies generators, transporters, commercial storers and/or brokers and disposers of PCB’s who are required to notify the EPA of such activities.

| Date of Government Version: 02/01/2010 | Source: EPA |
| Date Data Arrived at EDR: 04/22/2010 | Telephone: 202-566-0500 |
| Date Made Active in Reports: 08/09/2010 | Last EDR Contact: 07/30/2010 |
| Number of Days to Update: 109 | Next Scheduled EDR Contact: 11/01/2010 |
| Data Release Frequency: Annually |
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/18/2010  Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 04/06/2010  Telephone: 301-415-7169
Date Made Active in Reports: 05/27/2010  Last EDR Contact: 06/14/2010
Number of Days to Update: 51  Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/13/2010  Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/14/2010  Telephone: 202-343-9775
Date Made Active in Reports: 08/09/2010  Last EDR Contact: 07/14/2010
Number of Days to Update: 26  Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and ‘pointers’ to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010  Source: EPA
Date Data Arrived at EDR: 04/16/2010  Telephone: (415) 947-8000
Date Made Active in Reports: 05/27/2010  Last EDR Contact: 07/07/2010
Number of Days to Update: 41  Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995  Source: EPA
Date Data Arrived at EDR: 07/03/1995  Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995  Last EDR Contact: 06/02/2008
Number of Days to Update: 35  Next Scheduled EDR Contact: 09/01/2006
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2007  Source: EPA/NTIS
Date Data Arrived at EDR: 02/25/2010  Telephone: 800-424-9346
Date Made Active in Reports: 03/12/2010  Last EDR Contact: 08/24/2010
Number of Days to Update: 76  Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Biennially
CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.
Date of Government Version: 01/01/1989 Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994 Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994 Last EDR Contact: 05/31/1994
Number of Days to Update: 6 Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.
Date of Government Version: 06/19/2007 Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007 Telephone: 916-341-9227
Date Made Active in Reports: 06/29/2007 Last EDR Contact: 08/30/2010
Number of Days to Update: 9 Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Quarterly

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.
Date of Government Version: 05/21/2010 Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/29/2010 Telephone: 916-445-9379
Date Made Active in Reports: 07/07/2010 Last EDR Contact: 08/24/2010
Number of Days to Update: 43 Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Quarterly

CORTÈSE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/ILS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.
Date of Government Version: 07/08/2010 Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 07/09/2010 Telephone: 916-323-3400
Date Made Active in Reports: 08/12/2010 Last EDR Contact: 07/09/2010
Number of Days to Update: 34 Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Quarterly

HIST CORTÈSE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/ILS], and the Department of Toxic Substances Control [CAL-SITES].
Date of Government Version: 04/01/2001 Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/22/2009 Telephone: 916-323-3400
Date Made Active in Reports: 04/08/2009 Last EDR Contact: 01/22/2009
Number of Days to Update: 76 Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.
Date of Government Version: 10/21/1993 Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993 Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993 Last EDR Contact: 09/25/2010
Number of Days to Update: 18 Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: No Update Planned
DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes:
- power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholstery cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 12/22/2009
Date Data Arrived at EDR: 01/25/2010
Date Made Active in Reports: 01/29/2010
Number of Days to Update: 4
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Annually

WiP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/18/2010
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/07/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 36
Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/21/2010
Next Scheduled EDR Contact: 10/01/2010
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 07/14/2009
Date Made Active in Reports: 07/23/2009
Number of Days to Update: 9
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 07/09/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34
Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 05/12/2010
Date Data Arrived at EDR: 05/13/2010
Date Made Active in Reports: 08/17/2010
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/23/2010
Next Scheduled EDR Contact: 11/08/2010
Data Release Frequency: Varies
PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/24/2010 Source: Department of Conservation
Date Data Arrived at EDR: 06/25/2010 Telephone: 916-323-3836
Date Made Active in Reports: 07/09/2010 Last EDR Contact: 06/24/2010
Number of Days to Update: 14 Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/27/2010 Source: Department of Public Health
Date Data Arrived at EDR: 06/16/2010 Telephone: 916-558-1784
Date Made Active in Reports: 07/09/2010 Last EDR Contact: 08/14/2010
Number of Days to Update: 23 Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009 Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009 Last EDR Contact: 07/21/2010
Number of Days to Update: 76 Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 11/08/2009 Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/18/2009 Telephone: N/A
Date Made Active in Reports: 02/10/2010 Last EDR Contact: 06/14/2010
Number of Days to Update: 54 Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/21/2010 Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/21/2010 Telephone: 916-440-7145
Date Made Active in Reports: 08/12/2010 Last EDR Contact: 07/21/2010
Number of Days to Update: 22 Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/06/2010 Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/11/2010 Telephone: 916-323-3400
Date Made Active in Reports: 08/20/2010 Last EDR Contact: 09/11/2010
Number of Days to Update: 9 Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Quarterly

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.
### GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

<table>
<thead>
<tr>
<th>Date of Government Version: 07/16/2010</th>
<th>Source: California Integrated Waste Management Board</th>
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<td>Date Data Arrived at EDR: 07/19/2010</td>
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**FINANCIAL ASSURANCE: Financial Assurance Information Listing**

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**FEDLAND: Federal and Indian Lands**


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**PCB TRANSFORMER: PCB Transformer Registration Database**

The database of PCB transformer registrations that includes all PCB registration submittals.

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<thead>
<tr>
<th>Date of Government Version: 01/01/2008</th>
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**EDR PROPRIETARY RECORDS**

**EDR Proprietary Records**

**Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants**

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800’s to 1950’s to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

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<tr>
<th>Date of Government Version: N/A</th>
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<td>Data Release Frequency: No Update Planned</td>
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COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and groundwater contamination from leaking petroleum USTs).

Date of Government Version: 07/14/2010
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 27
next Scheduled EDR Contact: 10/18/2010
Date Release Frequency: Semi-Annually

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2010

Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 07/14/2010
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 27
Next Scheduled EDR Contact: 10/18/2010
Date Release Frequency: Semi-Annually

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2010

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/16/2010
Date Data Arrived at EDR: 08/17/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 3
Next Scheduled EDR Contact: 11/22/2010
Date Release Frequency: Semi-Annually

Source: Contra Costa Health Services Department
Telephone: 925-646-2288
Last EDR Contact: 08/09/2010

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/19/2010
Date Data Arrived at EDR: 07/21/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 22
Next Scheduled EDR Contact: 11/01/2010
Date Release Frequency: Semi-Annually

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/19/2010

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tank Listing.

Date of Government Version: 06/24/2010
Date Data Arrived at EDR: 06/24/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 15
Next Scheduled EDR Contact: 11/29/2010
Date Release Frequency: Quarterly

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/30/2010

LOS ANGELES COUNTY:
San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

<table>
<thead>
<tr>
<th>Date of Government Version: 03/30/2009</th>
<th>Source: EPA Region 9</th>
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<tbody>
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HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

<table>
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<tr>
<th>Date of Government Version: 12/31/2009</th>
<th>Source: Department of Public Works</th>
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List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

<table>
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<tr>
<th>Date of Government Version: 07/26/2010</th>
<th>Source: La County Department of Public Works</th>
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City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

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<tr>
<th>Date of Government Version: 03/05/2009</th>
<th>Source: Engineering &amp; Construction Division</th>
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<td>Date Data Arrived at EDR: 03/10/2009</td>
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Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

<table>
<thead>
<tr>
<th>Date of Government Version: 02/06/2010</th>
<th>Source: Community Health Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 03/12/2010</td>
<td>Telephone: 323-890-7805</td>
</tr>
<tr>
<td>Date Made Active in Reports: 03/04/2010</td>
<td>Last EDR Contact: 07/26/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 20</td>
<td>Next Scheduled EDR Contact: 11/08/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Annually</td>
</tr>
</tbody>
</table>

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

<table>
<thead>
<tr>
<th>Date of Government Version: 07/27/2010</th>
<th>Source: City of El Segundo Fire Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 07/28/2010</td>
<td>Telephone: 310-524-2236</td>
</tr>
<tr>
<td>Date Made Active in Reports: 08/12/2010</td>
<td>Last EDR Contact: 07/26/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 15</td>
<td>Next Scheduled EDR Contact: 11/08/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Semi-Annually</td>
</tr>
</tbody>
</table>

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

<table>
<thead>
<tr>
<th>Date of Government Version: 03/28/2003</th>
<th>Source: City of Long Beach Fire Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 10/23/2003</td>
<td>Telephone: 562-670-2563</td>
</tr>
<tr>
<td>Date Made Active in Reports: 11/26/2003</td>
<td>Last EDR Contact: 08/02/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 34</td>
<td>Next Scheduled EDR Contact: 11/15/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Annually</td>
</tr>
</tbody>
</table>
City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/07/2010  Source: City of Torrance Fire Department
Date Data Arrived at EDR: 07/30/2010  Telephone: 310-618-2973
Date Made Active in Reports: 08/12/2010  Last EDR Contact: 07/19/2010
Number of Days to Update: 13  Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 04/19/2010  Source: Public Works Department Waste Management
Date Data Arrived at EDR: 04/30/2010  Telephone: 415-499-6647
Date Made Active in Reports: 05/18/2010  Last EDR Contact: 07/12/2010
Number of Days to Update: 18  Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 07/06/2008  Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 07/09/2008  Telephone: 707-253-4269
Date Made Active in Reports: 07/31/2008  Last EDR Contact: 05/07/2010
Number of Days to Update: 22  Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008  Source: Napa County Department of Environmental Management
Date Data Arrived at EDR: 01/16/2008  Telephone: 707-253-4269
Date Made Active in Reports: 02/08/2008  Last EDR Contact: 05/07/2010
Number of Days to Update: 23  Next Scheduled EDR Contact: 09/20/2010
Data Release Frequency: No Update Planned

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/05/2010  Source: Health Care Agency
Date Data Arrived at EDR: 05/21/2010  Telephone: 714-834-3448
Date Made Active in Reports: 07/07/2010  Last EDR Contact: 08/17/2010
Number of Days to Update: 47  Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/05/2010  Source: Health Care Agency
Date Data Arrived at EDR: 05/21/2010  Telephone: 714-834-3448
Date Made Active in Reports: 07/07/2010  Last EDR Contact: 08/17/2010
Number of Days to Update: 47  Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Quarterly
List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).
Date of Government Version: 02/03/2010
Date Data Arrived at EDR: 02/12/2010
Date Made Active in Reports: 02/23/2010
Number of Days to Update: 11
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/17/2010
Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.
Date of Government Version: 06/22/2010
Date Data Arrived at EDR: 06/24/2010
Date Made Active in Reports: 07/08/2010
Number of Days to Update: 15
Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 06/14/2010
Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).
Date of Government Version: 08/04/2010
Date Data Arrived at EDR: 08/13/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 7
Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 07/07/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.
Date of Government Version: 04/19/2010
Date Data Arrived at EDR: 04/19/2010
Date Made Active in Reports: 05/18/2010
Number of Days to Update: 29
Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 07/07/2010
Next Scheduled EDR Contact: 10/11/2010
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.
Date of Government Version: 06/30/2010
Date Data Arrived at EDR: 07/21/2010
Date Made Active in Reports: 08/12/2010
Number of Days to Update: 22
Source: Sacramento County Environmental Management
Telephone: 916-875-8408
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.
Date of Government Version: 07/26/2010
Date Data Arrived at EDR: 08/16/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 4
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 10/25/2010
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:
Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 06/06/2010  Source: San Bernardino County Fire Department Hazardous Materials Division
Date Data Arrived at EDR: 06/1/2010  Telephone: 909-387-3041
Date Made Active in Reports: 07/09/2010  Last EDR Contact: 08/16/2010
Number of Days to Update: 28  Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 07/16/2008  Source: Hazardous Materials Management Division
Date Data Arrived at EDR: 10/29/2008  Telephone: 619-338-2268
Date Made Active in Reports: 11/26/2008  Last EDR Contact: 06/23/2010
Number of Days to Update: 28  Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2009  Source: Department of Health Services
Date Data Arrived at EDR: 12/04/2009  Telephone: 619-338-2209
Date Made Active in Reports: 01/18/2010  Last EDR Contact: 08/02/2010
Number of Days to Update: 45  Next Scheduled EDR Contact: 11/15/2010
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010  Source: San Diego County Department of Environmental Health
Date Data Arrived at EDR: 06/15/2010  Telephone: 619-338-2371
Date Made Active in Reports: 07/09/2010  Last EDR Contact: 09/15/2010
Number of Days to Update: 24  Next Scheduled EDR Contact: 09/27/2010
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008  Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008  Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008  Last EDR Contact: 09/16/2010
Number of Days to Update: 10  Next Scheduled EDR Contact: 11/29/2010
Data Release Frequency: Quarterly
Underground Storage Tank Information

<table>
<thead>
<tr>
<th>Date of Government Version: 05/17/2010</th>
<th>Source: Department of Public Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 05/17/2010</td>
<td>Telephone: 415-252-3920</td>
</tr>
<tr>
<td>Date Made Active in Reports: 07/09/2010</td>
<td>Last EDR Contact: 08/30/2010</td>
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<tr>
<td>Number of Days to Update: 53</td>
<td>Next Scheduled EDR Contact: 11/29/2010</td>
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<tr>
<td></td>
<td>Data Release Frequency: Quarterly</td>
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</table>

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

- A listing of underground storage tank locations in San Joaquin county.

<table>
<thead>
<tr>
<th>Date of Government Version: 05/14/2010</th>
<th>Source: Environmental Health Department</th>
</tr>
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<tbody>
<tr>
<td>Date Data Arrived at EDR: 06/09/2010</td>
<td>Telephone: N/A</td>
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<td>Date Made Active in Reports: 07/09/2010</td>
<td>Last EDR Contact: 07/07/2010</td>
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<td>Number of Days to Update: 30</td>
<td>Next Scheduled EDR Contact: 10/11/2010</td>
</tr>
<tr>
<td></td>
<td>Data Release Frequency: Semi-Annually</td>
</tr>
</tbody>
</table>

SAN MATEO COUNTY:

Business Inventory

- List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

<table>
<thead>
<tr>
<th>Date of Government Version: 07/15/2010</th>
<th>Source: San Mateo County Environmental Health Services Division</th>
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</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 07/16/2010</td>
<td>Telephone: 650-363-1921</td>
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<tr>
<td>Date Made Active in Reports: 08/12/2010</td>
<td>Last EDR Contact: 05/21/2010</td>
</tr>
<tr>
<td>Number of Days to Update: 27</td>
<td>Next Scheduled EDR Contact: 10/04/2010</td>
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<tr>
<td></td>
<td>Data Release Frequency: Annually</td>
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</table>

Fuel Leak List

- A listing of leaking underground storage tank sites located in San Mateo county.

<table>
<thead>
<tr>
<th>Date of Government Version: 06/21/2010</th>
<th>Source: San Mateo County Environmental Health Services Division</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Data Arrived at EDR: 06/22/2010</td>
<td>Telephone: 650-363-1921</td>
</tr>
<tr>
<td>Date Made Active in Reports: 07/09/2010</td>
<td>Last EDR Contact: 09/21/2010</td>
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<tr>
<td>Number of Days to Update: 17</td>
<td>Next Scheduled EDR Contact: 10/04/2010</td>
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<tr>
<td></td>
<td>Data Release Frequency: Semi-Annually</td>
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</tbody>
</table>

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

- A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county.

Leaking underground storage tanks are no longer handled by the Department of Environmental Health.

<table>
<thead>
<tr>
<th>Date of Government Version: 03/29/2005</th>
<th>Source: Santa Clara Valley Water District</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR: 03/30/2005</td>
<td>Telephone: 408-265-2600</td>
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<td>Date Made Active in Reports: 04/21/2005</td>
<td>Last EDR Contact: 03/23/2009</td>
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<td>Number of Days to Update: 22</td>
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<tr>
<td></td>
<td>Data Release Frequency: No Update Planned</td>
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</table>

LOP Listing

- A listing of leaking underground storage tanks located in Santa Clara county.

<table>
<thead>
<tr>
<th>Date of Government Version: 05/29/2009</th>
<th>Source: Department of Environmental Health</th>
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<tbody>
<tr>
<td>Date Data Arrived at EDR: 06/01/2009</td>
<td>Telephone: 408-918-3417</td>
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<td>Date Made Active in Reports: 06/15/2009</td>
<td>Last EDR Contact: 07/09/2010</td>
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<td>Number of Days to Update: 14</td>
<td>Next Scheduled EDR Contact: 09/20/2010</td>
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<tr>
<td></td>
<td>Data Release Frequency: Annually</td>
</tr>
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</table>
Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 08/31/2009  
Date Data Arrived at EDR: 08/31/2009  
Date Made Active in Reports: 09/18/2009  
Number of Days to Update: 18  
Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 08/30/2010  
Next Scheduled EDR Contact: 11/29/2010  
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/07/2010  
Date Data Arrived at EDR: 06/22/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 17  
Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 06/07/2010  
Next Scheduled EDR Contact: 09/20/2010  
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/07/2010  
Date Data Arrived at EDR: 06/23/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 16  
Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 03/08/2010  
Next Scheduled EDR Contact: 09/20/2010  
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/12/2010  
Date Data Arrived at EDR: 07/13/2010  
Date Made Active in Reports: 08/12/2010  
Number of Days to Update: 30  
Source: Department of Health Services  
Telephone: 707-565-6555  
Last EDR Contact: 07/07/2010  
Next Scheduled EDR Contact: 10/18/2010  
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 07/21/2010  
Date Data Arrived at EDR: 07/22/2010  
Date Made Active in Reports: 08/12/2010  
Number of Days to Update: 21  
Source: Sutter County Department of Agriculture  
Telephone: 530-822-7500  
Last EDR Contact: 07/14/2010  
Next Scheduled EDR Contact: 09/27/2010  
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/26/2010  
Date Data Arrived at EDR: 05/29/2010  
Date Made Active in Reports: 07/07/2010  
Number of Days to Update: 40  
Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 08/24/2010  
Next Scheduled EDR Contact: 12/06/2010  
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites  
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2009  
Date Data Arrived at EDR: 10/05/2009  
Date Made Active in Reports: 10/13/2009  
Number of Days to Update: 8  
Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 08/30/2010  
Next Scheduled EDR Contact: 11/15/2010  
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites  
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008  
Date Data Arrived at EDR: 06/24/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 37  
Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 09/24/2010  
Next Scheduled EDR Contact: 12/06/2010  
Data Release Frequency: Quarterly

Underground Tank Closed Sites List  
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2010  
Date Data Arrived at EDR: 06/24/2010  
Date Made Active in Reports: 07/09/2010  
Number of Days to Update: 15  
Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 05/24/2010  
Next Scheduled EDR Contact: 10/04/2010  
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report  
Underground storage tank sites located in Yolo county.

Date of Government Version: 04/07/2010  
Date Data Arrived at EDR: 04/13/2010  
Date Made Active in Reports: 05/18/2010  
Number of Days to Update: 35  
Source: Yolo County Department of Health  
Telephone: 530-666-8646  
Last EDR Contact: 07/19/2010  
Next Scheduled EDR Contact: 10/11/2010  
Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data  
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007  
Date Data Arrived at EDR: 08/26/2009  
Date Made Active in Reports: 09/11/2009  
Number of Days to Update: 16  
Source: Department of Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 08/25/2010  
Next Scheduled EDR Contact: 12/06/2010  
Data Release Frequency: Annually
GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.
Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/22/2010
Date Made Active in Reports: 08/20/2010
Number of Days to Update: 35
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/22/2010
Next Scheduled EDR Contact: 11/01/2010
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.
Date of Government Version: 04/30/2010
Date Data Arrived at EDR: 05/13/2010
Date Made Active in Reports: 06/21/2010
Number of Days to Update: 39
Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/11/2010
Next Scheduled EDR Contact: 11/22/2010
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.
Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2008
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13
Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 08/23/2010
Next Scheduled EDR Contact: 12/06/2010
Data Release Frequency: Annually

RI MANIFEST: Manifest Information
Hazardous waste manifest information.
Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/19/2010
Date Made Active in Reports: 08/26/2010
Number of Days to Update: 38
Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/30/2010
Next Scheduled EDR Contact: 12/13/2010
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.
Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 07/06/2010
Date Made Active in Reports: 07/26/2010
Number of Days to Update: 20
Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/21/2010
Next Scheduled EDR Contact: 10/04/2010
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association’s annual survey of hospitals.
Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6246
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NIWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.
GROUNDWATER FLOW DIRECTION INFORMATION
Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

TOPOGRAPHIC INFORMATION
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY
General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.
HYDROLOGIC INFORMATION
Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County: SONOMA, CA
FEMA Flood Electronic Data:
YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property: 06097C - FEMA DFIRM Flood data
Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property: SANTA ROSA
NWI Electronic Data Coverage:
YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION
Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:
Search Radius: 1.25 miles
Location Relative to TP: 1/2 - 1 Mile NNW
Site Name: Acme Auto Wreckers
Site EPA ID Number: CAD983644998
Inferred Depth to Water: less than 15 feet.
Hydraulic Connection: The site is underlain by deposits consisting of fine sands, silts, clays, coarse sands, and gravels to a depth of 200 feet. The shallow water table and lower aquifers are interconnected through numerous irrigation wells screened in both aquifers.
Sole Source Aquifer: No information about a sole source aquifer is available
Data Quality: Information is inferred in the CERCLIS investigation report(s)

AQUIFLOW®
Search Radius: 1.000 Mile.
EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID  LOCATION  GENERAL DIRECTION

* ©1995 Site-specific hydrogeological data gathered by CERCLIS Aerts, Inc., Eastbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.
<table>
<thead>
<tr>
<th>MAP ID</th>
<th>LOCATION</th>
<th>GENERAL DIRECTION</th>
<th>GROUNDWATER FLOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>B5</td>
<td>1/2 - 1 Mile ESE</td>
<td>Not Reported</td>
<td></td>
</tr>
<tr>
<td>B6</td>
<td>1/2 - 1 Mile ESE</td>
<td>Varies</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1/2 - 1 Mile North</td>
<td>SW</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1/2 - 1 Mile NNW</td>
<td>SW</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>1/2 - 1 Mile ESE</td>
<td>Not Reported</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>1/2 - 1 Mile NNW</td>
<td>WSW</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>1/2 - 1 Mile NE</td>
<td>Varies</td>
<td></td>
</tr>
<tr>
<td>E16</td>
<td>1/2 - 1 Mile ESE</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>E17</td>
<td>1/2 - 1 Mile ESE</td>
<td>S</td>
<td></td>
</tr>
<tr>
<td>F18</td>
<td>1/2 - 1 Mile NNE</td>
<td>NW</td>
<td></td>
</tr>
<tr>
<td>F19</td>
<td>1/2 - 1 Mile NNE</td>
<td>NW</td>
<td></td>
</tr>
</tbody>
</table>

For additional site information, refer to Physical Setting Source Map Findings.
**GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

<table>
<thead>
<tr>
<th>ROCK STRATIGRAPHIC UNIT</th>
<th>GEOLOGIC AGE IDENTIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Era: Cenozoic</td>
<td>Category: Stratified Sequence</td>
</tr>
<tr>
<td>System: Quaternary</td>
<td></td>
</tr>
<tr>
<td>Series: Quaternary</td>
<td>(decoded above as Era, System &amp; Series)</td>
</tr>
<tr>
<td>Code: Q</td>
<td></td>
</tr>
</tbody>
</table>

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

**Soil Component Name:** CLEAR LAKE  
**Soil Surface Texture:** clay  
**Hydrologic Group:** Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.  
**Soil Drainage Class:** Poorly drained  
**Hydric Status:** All hydric  
**Corrosion Potential - Uncoated Steel:** High  
**Depth to Bedrock Min:** > 0 inches  
**Depth to Watertable Min:** > 0 inches

### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Max: 1.4 Min: 0.42</td>
<td>Max: 8.4 Min: 7.4</td>
</tr>
<tr>
<td>2</td>
<td>38 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Max: 1.4 Min: 0.42</td>
<td>Max: 8.4 Min: 7.4</td>
</tr>
</tbody>
</table>

### Soil Map ID: 2

**Soil Component Name:** WRIGHT  
**Soil Surface Texture:** loam  
**Hydrologic Group:** Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.  
**Soil Drainage Class:** Somewhat poorly drained
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches
Depth to Watertable Min: > 0 inches

### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary Upper</th>
<th>Boundary Lower</th>
<th>Soil Texture Class</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>7 inches</td>
<td>loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td>
<td>COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.</td>
<td>Max: 4 Min: 1.4 Max: 7.3 Min: 6.1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>7 inches</td>
<td>25 inches</td>
<td>loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td>
<td>COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.</td>
<td>Max: 4 Min: 1.4 Max: 7.3 Min: 6.1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>25 inches</td>
<td>61 inches</td>
<td>clay</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td>
<td>COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.</td>
<td>Max: 4 Min: 1.4 Max: 7.3 Min: 6.1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>61 inches</td>
<td>72 inches</td>
<td>sandy clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.</td>
<td>COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.</td>
<td>Max: 4 Min: 1.4 Max: 7.3 Min: 6.1</td>
<td></td>
</tr>
</tbody>
</table>

---

**Soil Map ID:** 3

**Soil Component Name:** YOLO

**Soil Surface Texture:** clay loam

**Hydrologic Group:** Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

**Soil Drainage Class:** Well drained
Hydric Status: Not hydric
Corrosion Potential - Uncoated Steel: Low
Depth to Bedrock Min: > 0 inches
Depth to Watertable Min: > 0 inches

### Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Upper</th>
<th>Lower</th>
<th>Soil Texture Class</th>
<th>AASHTO Group</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>7 inches</td>
<td>clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay</td>
<td>Max: 14 Min: 4</td>
<td>Max: 8.4 Min: 6.1</td>
</tr>
<tr>
<td>2</td>
<td>7 inches</td>
<td>59 inches</td>
<td>loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay</td>
<td>Max: 14 Min: 4</td>
<td>Max: 8.4 Min: 6.1</td>
</tr>
</tbody>
</table>

---

Soil Map ID: 4

Soil Component Name: CLEAR LAKE

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches
## Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity (μm/sec)</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>12 inches</td>
<td>clay</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Max: 1.4 Min: 0.42</td>
</tr>
<tr>
<td>2</td>
<td>12 inches</td>
<td>59 inches</td>
<td>clay</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.</td>
<td>Max: 1.4 Min: 0.42</td>
</tr>
</tbody>
</table>

---

**Soil Map ID: 5**

**Soil Component Name:** ZAMORA

**Soil Surface Texture:** silty clay loam

**Hydrologic Group:** Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

**Soil Drainage Class:** Well drained

**Hydric Status:** Not hydric

**Corrosion Potential - Uncoated Steel:** Moderate

**Depth to Bedrock Min:** > 0 inches

**Depth to Watertable Min:** > 0 inches

---

## Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Saturated hydraulic conductivity (μm/sec)</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0 inches</td>
<td>5 inches</td>
<td>silty clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay</td>
</tr>
</tbody>
</table>
## Soil Layer Information

<table>
<thead>
<tr>
<th>Layer</th>
<th>Boundary</th>
<th>Soil Texture Class</th>
<th>Classification</th>
<th>Unified Soil</th>
<th>Saturated hydraulic conductivity micro m/sec</th>
<th>Soil Reaction (pH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>5 inches</td>
<td>29 inches</td>
<td>clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>Max: 14 Min: 4</td>
<td>Max: 7.3 Min: 6.6</td>
</tr>
<tr>
<td>3</td>
<td>29 inches</td>
<td>40 inches</td>
<td>clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>Max: 14 Min: 4</td>
<td>Max: 7.3 Min: 6.6</td>
</tr>
<tr>
<td>4</td>
<td>40 inches</td>
<td>55 inches</td>
<td>sandy clay loam</td>
<td>Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.</td>
<td>Max: 14 Min: 4</td>
<td>Max: 7.3 Min: 6.6</td>
</tr>
</tbody>
</table>

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<table>
<thead>
<tr>
<th>DATABASE</th>
<th>SEARCH DISTANCE (miles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal USGS</td>
<td>1.000</td>
</tr>
<tr>
<td>Federal FRDS PWS</td>
<td>Nearest PWS within 1 mile</td>
</tr>
<tr>
<td>State Database</td>
<td>1.000</td>
</tr>
</tbody>
</table>

## FEDERAL USGS WELL INFORMATION

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
</table>

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### Federal USGS Well Information

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td>USGS3236591</td>
<td>1/4 - 1/2 Mile West</td>
</tr>
</tbody>
</table>

### Federal FRDS Public Water Supply System Information

No PWS System Found

*Note: PWS System location is not always the same as well location.*

### State Database Well Information

<table>
<thead>
<tr>
<th>MAP ID</th>
<th>WELL ID</th>
<th>LOCATION FROM TP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7417</td>
<td>1/8 - 1/4 Mile ESE</td>
</tr>
<tr>
<td>A3</td>
<td>CADW40000039506</td>
<td>1/4 - 1/2 Mile WNW</td>
</tr>
<tr>
<td>4</td>
<td>7416</td>
<td>1/2 - 1 Mile North</td>
</tr>
<tr>
<td>C9</td>
<td>7413</td>
<td>1/2 - 1 Mile NNE</td>
</tr>
<tr>
<td>C11</td>
<td>7414</td>
<td>1/2 - 1 Mile NNE</td>
</tr>
<tr>
<td>D14</td>
<td>CADW40000039514</td>
<td>1/2 - 1 Mile ENE</td>
</tr>
<tr>
<td>D15</td>
<td>7412</td>
<td>1/2 - 1 Mile ENE</td>
</tr>
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</table>
### GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

<table>
<thead>
<tr>
<th>Map ID</th>
<th>Elevation</th>
<th>Database</th>
<th>EDR ID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/8 - 1/4 Mile</td>
<td>CA WELLS</td>
<td>7417</td>
</tr>
</tbody>
</table>

**Water System Information:**
- **Prime Station Code:** 07N08W-27G02 M
- **FRDS Number:** 4900834001
- **District Number:** 03
- **Water Type:** Well/Groundwater
- **Well Status:** Active Raw
- **Source Lat/Long:** 382503.0 1224345.0
- **Precision:** 100 Feet (one Second)
- **System Name:** Chelsea Garden Apartments
- **Organization That Operates System:** 1220 Mc MINN ST.
  SANTA ROSA, CA 95407
- **Pop Served:** 240
- **Area Served:** Not Reported

### A2 West

<table>
<thead>
<tr>
<th>Agency cd</th>
<th>Site no</th>
<th>EDR Site id</th>
<th>USGS3236591</th>
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</thead>
<tbody>
<tr>
<td>USGS</td>
<td>382509</td>
<td>USGS3236591</td>
<td></td>
</tr>
<tr>
<td>007N008W27N002M</td>
<td>382509122441701</td>
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<table>
<thead>
<tr>
<th>Site name</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Dec lat</th>
<th>Coor meth</th>
</tr>
</thead>
<tbody>
<tr>
<td>382509</td>
<td>1224417</td>
<td>-122.73915455</td>
<td>38.41907927</td>
<td>M</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>State</th>
<th>County</th>
<th>Dec iatlong datum</th>
<th>Dec iatlong</th>
<th>Coor accr</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>097</td>
<td>NAD83</td>
<td>NAD27</td>
<td>F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location map</th>
<th>Altitude</th>
<th>Altitude method</th>
</tr>
</thead>
<tbody>
<tr>
<td>SANTA ROSA</td>
<td>116</td>
<td>Interpolated from topographic map</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydrologic</th>
<th>Topographic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian, California. Area = 1470 sq.mi.</td>
<td>Valley flat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site type</th>
<th>Date inventoried</th>
<th>Date construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ground-water other than Spring</td>
<td>Not Reported</td>
<td>19730627</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aquifer Type</th>
<th>Aquifer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Reported</td>
<td>Not Reported</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Well depth</th>
<th>Hole depth</th>
<th>Source of depth data</th>
</tr>
</thead>
<tbody>
<tr>
<td>65.0</td>
<td>Not Reported</td>
<td>Not Reported</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project number</th>
<th>Real time data flag</th>
<th>Daily flow data begin date</th>
<th>Daily flow data count</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-9-358M</td>
<td>0</td>
<td>0000-00-00</td>
<td>0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Peak flow data begin date</th>
<th>Peak flow data count</th>
<th>Water quality data begin date</th>
<th>Water quality data count</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000-00-00</td>
<td>0</td>
<td>0000-00-00</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water quality data end date</th>
<th>Ground water data begin date</th>
<th>Ground water data count</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000-00-00</td>
<td>1973-06-27</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

 Feet below Feet to
Date Surface Sealvel

1973-06-27 18.00

A3
WNW
1/4 - 1/2 Mile
Lower

Longitude: -122.7386
Latitude: 38.4197
Stwellno: 07N08W27N002M
Districtco: 7
Welluseco: H
Countyco: 49
Gwcode: 101801
Site id: CADW40000039506

CA WELLS CADW40000039506

4
North
1/2 - 1 Mile
Higher

Water System Information:
Prime Station Code: 07N08W-27F02 M
FRD5 Number: 4900764001
District Number: 03
Water Type: Well/Groundwater
Source Lat/Long: 382535.0 1224358.0
Source Name: WELL 01
System Number: 4900764
System Name: SUNSET APARTMENTS
Organization That Operates System:
544 COLLEGE AVE.
SANTA ROSA, CA 95404
Pop Served: 75
Area Served: Not Reported

User ID: RXR
County: Sonoma
Station Type: WELL/AMBNT/MUN/INTAKE
Well Status: Active Raw
Precision: 100 Feet (one Second)
Connections: 20

B5
ESE
1/2 - 1 Mile
Higher

Site ID: Not Reported
Groundwater Flow: Not Reported
Shallow Water Depth: Not Reported
Deep Water Depth: Not Reported
Average Water Depth: 13
Date: 12/08/1995

AQUIFLOW 54562

B6
ESE
1/2 - 1 Mile
Higher

Site ID: Not Reported
Groundwater Flow: Varies
Shallow Water Depth: 8
Deep Water Depth: 12
Average Water Depth: Not Reported
Date: 05/11/1990

AQUIFLOW 54560
# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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<td>Water Type:</td>
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<td>Organization That Operates System:</td>
<td>16 Brookside Sebastopol, CA 94947</td>
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<td>Water Type:</td>
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</tbody>
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### GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

- **System Number:** 4900889
- **System Name:** Avalon Apartments
- **Organization That Operates System:**
  - 60 Palm Way
  - Santa Rosa, CA 94941
- **Pop Served:** 100
- **Area Served:** Not Reported
- **Sample Collected:** 01/22/2006
- **Chemical:** GROSS ALPHA COUNTING ERROR
  - Findings: 0.914 PC/L
- **Sample Collected:** 02/22/2006
  - Chemical: MANGANESE
  - Findings: 620 UG/L
- **Sample Collected:** 02/22/2006
  - Chemical: NITRATE (AS NO3)
  - Findings: 13 MG/L
- **Sample Collected:** 03/22/2006
  - Chemical: MANGANESE
  - Findings: 790 UG/L

<table>
<thead>
<tr>
<th>12</th>
<th>NNW</th>
<th>1/2 - 1 Mile Higher</th>
<th>Site ID: Not Reported</th>
<th>Groundwater Flow: WSW</th>
<th>Shallow Water Depth: 12</th>
<th>Deep Water Depth: 18</th>
<th>Average Water Depth: Not Reported</th>
<th>Date: 08/1992</th>
<th>AQUIFLOW 70293</th>
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</table>

| 13 | NE  | 1/2 - 1 Mile Higher | Site ID: Not Reported | Groundwater Flow: Varies | Shallow Water Depth: 6.80 | Deep Water Depth: 13.73 | Average Water Depth: Not Reported | Date: 08/16/1994 | AQUIFLOW 54553 |

#### D14
- **ENE**
- **1/2 - 1 Mile Higher**

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<tr>
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<tr>
<td>Swellino: 07N08W26L002M</td>
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<tr>
<td>Districtco: 7</td>
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<tr>
<td>Welluseco: H</td>
</tr>
<tr>
<td>Countyco: 49</td>
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<tr>
<td>Gwcode: 101801</td>
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<td>Site id: CADW40000039514</td>
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#### D15
- **ENE**
- **1/2 - 1 Mile Higher**

**Water System Information:**

- **Prime Station Code:** 07N08W-26L02 M
- **FRDS Number:** 4900858001
- **District Number:** 03
- **Water Type:** Well/Groundwater
- **Source Lat/Long:** 382517.0 1224259.0
- **Source Name:** WELL 01
- **User ID:** RXR
- **County:** Sonoma
- **Station Type:** WELL/AMBNT/MUN/INTAKE
- **Well Status:** Active Untreated
- **Precision:** 10 Feet (1/10 Second)

TC2861935.2s  Page A-17
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<th>Site ID</th>
<th>Groundwater Flow</th>
<th>Shallow Water Depth</th>
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<td>E16</td>
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<td>E17</td>
<td>S</td>
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## AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

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<th>&gt; 4 Pci/L</th>
<th>Pct. &gt; 4 Pci/L</th>
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<td>95407</td>
<td>9</td>
<td>0</td>
<td>0.00</td>
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Federal EPA Radon Zone for SONOMA County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95407

Number of sites tested: 4

<table>
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<tr>
<th>Area</th>
<th>Average Activity</th>
<th>% &lt;4 pCi/L</th>
<th>% 4-20 pCi/L</th>
<th>% &gt;20 pCi/L</th>
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<td>Living Area - 1st Floor</td>
<td>0.475 pCi/L</td>
<td>100%</td>
<td>0%</td>
<td>0%</td>
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<td>Living Area - 2nd Floor</td>
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<td>Not Reported</td>
<td>Not Reported</td>
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<tr>
<td>Basement</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
<td>Not Reported</td>
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TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOWR Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.
LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Health Services
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.
OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR’s Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California’s Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Exhibit G – Regulatory Records Documentation
No documents available.
Environmental Site Assessment, Phase 1 Investigation
1990 & 2030 Burbank Avenue
Santa Rosa, California

APN 125-421-018 & 019

Prepared for:

Burbank Housing Development Corporation
3452 Mendocino Avenue
Santa Rosa, California 95403

Prepared by:

Harris & Lee Environmental Sciences

Robert S. Harris, REA #4966

February 26, 2002
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Exhibit E: Environmental Data Resources Reports
            (Radius Map & Report, City Directory Search, Sanborn Map Report)
1.0 EXECUTIVE SUMMARY

Pursuant to the request and assignment of Burbank Housing Development Corporation, Harris & Lee Environmental Sciences has performed a Phase I Environmental Site Assessment on the property identified as Assessor's Parcel Numbers (APN) 125-425-018 & 019 in the unincorporated area of Santa Rosa, California. The street address is 1990 and 2030 Burbank Avenue, Santa Rosa, California 95404.

The purpose of this report is to provide information as to the Recognized Environmental Conditions on or near the aforementioned property. This Environmental Site Assessment follows the guidelines established by the American Society for Testing and Materials (ASTM) in the document entitled "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" and designated E 1527-00.

The Scope of Service for this Phase I Environmental Site Assessment consists of four overall tasks:

➢ Task I: Research and review of regulatory information.
➢ Task II: A site reconnaissance of subject and nearby property.
➢ Task III: Interviews of persons with knowledge of subject and surrounding property.
➢ Task IV: Preparation of the final Environmental Site Assessment report.

The subject property is in the unincorporated area of Santa Rosa known as the Roseland Area. The land zoning for the subject property is designated as RR-B6 by the Sonoma County Permit and Resource Management Department. The designation RR represents Rural Residential District.

The subject property is undeveloped and has an area of 5 acres.

Harris & Lee Environmental Sciences has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-00 of the property identified as APN 125-425-018 & 019 and having the address of 1990-2030 Burbank Avenue, Santa Rosa, California 95407. This assessment has revealed no Recognized Environmental Condition in connection with the property as defined by the ASTM (Section 2.1 of this report).

This report is governed by the Limitations set forth in Sections 2.4 and 2.5 of this report. This Executive Summary is not to be used without the accompaniment of the entire report.
2.0 INTRODUCTION

2.1 Purpose

Pursuant to the request and assignment of Burbank Housing Development Corporation, Harris & Lee Environmental Sciences has performed a Phase I Environmental Site Assessment on the property identified as Assessor’s Parcel Numbers (APN) 125-425-018 & 019 in the unincorporated area of Santa Rosa, California. The street address is 1990 and 2030 Burbank Avenue, Santa Rosa, California 95404.

The purpose of this Phase I Environmental Site Assessment is to provide information as to the Recognized Environmental Conditions on or near the subject property noted above. Recognized Environmental Conditions are defined with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. This Environmental Site Assessment follows the guidelines established by the American Society for Testing and Materials (ASTM) in the document entitled “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process” and designated E 1527-00.

Recognized Environmental Conditions are defined as:

The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, ground water, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions.” (ASTM E 1527-00 & E 1528 1.1.1)

Pursuant to the ASTM E-1527 Standard Practice, Recognized Environmental Conditions do not include Asbestos Containing Materials or Lead-base paint or other non-CERCLA related conditions (i.e., regulatory compliance, wetlands, indoor air quality, etc.).

2.2 Scope of Services

The Scope of Services for this Phase I Environmental Site Assessment consists of four overall tasks:

➢ Task I: Research and review of regulatory information.
➢ Task II: A site reconnaissance of subject and nearby properties.
➢ Task III: Interviews of persons with knowledge of subject and surrounding property.
➢ Task IV: Preparation of the final Environmental Site Assessment report.

The Scope of Services for this Phase I Environmental Site Assessment follows the Standard Practice for Environmental Site Assessments designated as E 1527-00 of the ASTM. Accordingly, the Phase I Environmental Site Assessment is targeted towards the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and petroleum products. As such, "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in 42 USC 9601(35)(B) is applied. However, an evaluation of business environmental risk associated with a parcel of commercial real estate may necessitate investigation beyond that identified in this assessment.

The Scope of Services includes observations for Recognized Environmental Conditions, as well as information that can be obtained from regulatory files that are obtainable without investigation into archives of the various agencies. Accordingly, it cannot be guaranteed that all files are examined or that every contingency is investigated. These limitations are in conformance with the stated guidelines of ASTM Standard Practice E 1527-00 Sections 7.1.4.1, 7.1.4.2 and 7.1.4.3.

The Records Review includes files available at State and County Offices listed in Section 5.2 of this report. In some cases the status of a site is determined from telephone interviews of staff persons of these offices. The site reconnaissance consists of the subject property and the identification of nearby properties. Interviews are conducted of persons reasonably available at the time of the site reconnaissance, and on occasion, by telephone when such interviews are possible. The report follows the guidelines of the ASTM E-1527-00 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

The Scope of Services for this Phase I Environmental Site Assessment does not include analysis of Asbestos Containing Materials (ACM), although if obvious visual indications of ACM are observed, they are reported. Neither does the Scope of Services include analysis of the building constituents for Lead based paint or other non-CERCLA related conditions (i.e., regulatory compliance, wetlands, indoor air quality, etc.). If there is suspicion that these substances or conditions may be present, professionals licensed to assess their presence should be contacted. Harris & Lee Environmental Sciences can supply referenced for such professionals, if requested.
2.3 Significant Assumptions

The Phase I Environmental Site Assessment is intended to assess the environmental conditions of a specific parcel of commercial real estate. It is intended to constitute appropriate inquiry for purposes of CERCLA's innocent landowner defense; however, it is not intended to be limited to that purpose. This Phase I is intended to reflect a commercially prudent and reasonable inquiry designed to recognized environmental conditions in connection with a property.

2.4 Limitations and Exceptions

The Scope of Services performed to complete this Phase I Environmental Site Assessment was limited in nature. While we consider work of this type to be valuable in the preliminary evaluation of potential hazardous materials or waste at the site, we also must alert the Client that this study may not reveal hazardous materials releases that have occurred. Also, the site conditions can change with time, and our assessment was not intended to predict future site conditions. Because of the limited nature of this assessment, this report is not a risk assessment and the Scope of Services does not include a determination of the extent of business environmental risk nor the public health impact of, known or suspected hazardous materials or wastes.

This service has been performed in accordance with generally accepted environmental investigation practices for similar investigations conducted at this time and in this geographic area. No other guarantees or warranties, expressed or implied are provided.

It is understood by the parties hereto that the Client who has requested this assessment will use the assessment (in addition to other information) to provide information to a lender, investors in the property, for the purposes of refinancing or purchasing said property or to satisfy regulatory agency requirements. Consultant intends no other use or disclosure. Client agrees to hold Consultant harmless for any inverse condemnation or devaluation of said property that may result if the Consultant's report or information generated is used for other purposes. Also, this report is issued with the understanding that it is to be used only in its entirety.

2.5 User Reliance

Only Burbank Housing Development Corporation may rely upon this report. No other person or entity may have reliance upon this report without the express written consent of Harris & Lee Environmental Sciences.
2.6 Involved Parties

The party involved in the proposed transaction is Burbank Housing Development Corporation who retained Harris & Lee Environmental Sciences to conduct this Phase I Environmental Site Assessment and the current owner of the property, Anthony D. Gomez, Trustee of the Gomez Family Trust.

3.0 SITE DESCRIPTION

3.1 Site Locations and Legal Description

Exhibit A is a vicinity map of the general area of the subject property. Exhibit B presents an Assessor’s Parcel Map for the subject property. The Assessor’s Parcel Numbers for the property are 125-421-018 & 019. Each parcel is approximately 2.5 acres in area. The legal description of the parcels may be found in the title report for the subject property, which is not included in this report.

3.2 Site and Vicinity General Characteristics

Single-family residences are north, south, and west of the subject property. Roseland School District is to the east.

The subject property is in the unincorporated area of Santa Rosa known as the Roseland Area. The land zoning for the subject property is designated as RR-B6 by the Sonoma County Permit and Resource Management Department. The designation RR represents Rural Residential District. The purpose of this designation is to preserve the rural character and amenities of those lands best utilized for low-density residential development.

3.3 Current Use of the Property

As of the date of this report the subject property is vacant and undeveloped.

3.4 Descriptions of Improvements

The subject property is unimproved and no known structures are on the property.

3.4.1 Structures

No structures are known to exist on the property.
3.4.2 Roads

Burbank Avenue is a 50-foot wide street that traverses in a north-south direction, from Sebastopol Avenue to the north to Hearn Avenue to the south.

3.4.3 Sewage Disposal

Not applicable. The Santa Rosa Department of Utilities will provide sewage disposal service for the subject property in the future.

3.4.4 Water Supply

Not applicable. The Santa Rosa Department of Utilities will provide sewage disposal service for the subject property in the future.

3.4.5 Heating and cooling systems

*Heating system:* Not applicable. Natural gas will be provided by PG&E in the future.

*Cooling system:* Not applicable.

3.5 Current Use of the Adjoining Properties

Table 3.5 lists the current adjoining properties and their uses as listed in the Sonoma County Assessor’s Office.

Table 3.5: List of Adjoining Properties.

<table>
<thead>
<tr>
<th>DIRECTION</th>
<th>APN</th>
<th>ADDRESS</th>
<th>RECORDED OWNER</th>
<th>SIZE</th>
<th>USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site</td>
<td>125-421-018</td>
<td>2030 Burbank Ave (USR)</td>
<td>Antonio D. Gomez Trust</td>
<td>2.5 Acres</td>
<td>Vacant residential lot/undeveloped</td>
</tr>
<tr>
<td>Site</td>
<td>125-421-019</td>
<td>1990 Burbank Ave (USR)</td>
<td>Antonio D. Gomez Trust</td>
<td>2.5 Acres</td>
<td>Vacant residential lot/undeveloped</td>
</tr>
<tr>
<td>North</td>
<td>125-421-003</td>
<td>1870 Burbank Ave (USR)</td>
<td>Walter D. Murphy III</td>
<td>1.25 Acres</td>
<td>Single family dwelling</td>
</tr>
<tr>
<td>North</td>
<td>125-421-021</td>
<td>1850 Burbank Ave (USR)</td>
<td>Tommy W. &amp; Donna D. Layman</td>
<td>113 x 126 ft</td>
<td>Single family dwelling</td>
</tr>
<tr>
<td>North</td>
<td>125-421-020</td>
<td>1840 Burbank Ave (USR)</td>
<td>William &amp; Teanna Boricio</td>
<td>298 x 126 ft</td>
<td>Single family dwelling</td>
</tr>
<tr>
<td>East</td>
<td>125-431-023</td>
<td>1777 West Ave (USR)</td>
<td>Roseland School District</td>
<td>11.72 Acres</td>
<td>School District property</td>
</tr>
<tr>
<td>South</td>
<td>125-421-013</td>
<td>830 Liana Dr (USR)</td>
<td>Donald R. &amp; Mary L. Cook et al</td>
<td>498 x 83 ft</td>
<td>Single family dwelling</td>
</tr>
<tr>
<td>South</td>
<td>125-421-014</td>
<td>2050 Burbank Ave (USR)</td>
<td>Paul Pesce Trust</td>
<td>364 x 83 ft</td>
<td>Single family dwelling</td>
</tr>
<tr>
<td>West</td>
<td>Burbank Ave</td>
<td>Public Street</td>
<td>Public Street</td>
<td>50 ft wide</td>
<td>Public Street</td>
</tr>
</tbody>
</table>
4.0 USER PROVIDED INFORMATION

The purpose of this section is to identify general tasks that will help identify the possibility of recognized environmental conditions in connection with the subject property. These tasks do not require technical expertise and are not generally included in a Phase I Environmental Site Assessment. These tasks are generally the responsibility of the client.

4.1 Title Records / Environmental Liens / Use Limitations

As of the date of this report, no environmental liens were discovered in connection with the subject property.

4.2 Valuation Reduction for Environmental Issues

No information concerning valuation reduction issues was located in the course of preparing this report. An appraisal report was not reviewed in the preparation of this report.

4.3 Property Managers, and Occupant Information

Anthony D. Gomez, Trustee of the Gomez Family Trust, being the owner, has responsibility for the management of the property.

4.4 Reason for Performing Phase I

This Environmental Site Assessment, Phase I Investigation is being performed as part of the client’s overall requirements to secure permits for development and for financing the development of the subject property.

5.0 RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the subject property.
5.1 Standard Environmental Record Sources

The standard environmental record sources were obtained through a computer data bank search company, Environmental Data Resources, Inc. of Southport, Connecticut. Computer data bank searches for active sites can be useful in locating sites that may have the potential to adversely impact the subject site. It is important to keep in mind that computer database searches provide general overview data and may not be precise in the data that is presented. Consequently, an investigator needs additional familiarity with active sites to properly interpret the data that is provided.

The Environmental Data Resources Report is dated February 13, 2002 with Inquiry Number: 734358.3s. The report accessed a number of active federal, state, and local databases. A comprehensive listing of government records searched are listed in the Appendix. The pertinent lists of the databases accessed and reviewed include the following.

**U.S. Federal Standard Databases:**
- United States Environmental Protection Agency Superfund Sites (NPL).
- United States Environmental Protection Agency Potential Superfund Sites (CERCLIS and CERC-NFRAP).
- ERNS – Emergency Response Notification System.
- CORRACTS – Corrective Action Report identifies hazardous waste handlers with RCRA corrective action activity.

**California State Standard Databases:**
- CAL-SITES – California Environmental Protection Agency (CALEPA), Department of Toxic Substance Control: Annual Work plan Program (AWP), this is the former Bond Expenditure Plan (BEP). Also included in this database are the potentially or confirm contaminated sites under the Abandoned Site Program (ASPI).  
- SWF/LS - California Integrated Waste Management Board: this database consists of active, closed, and inactive Landfills and Disposal Sites.  
- Toxic Pits – California State Water Resources Control Board: This database is managed by the local Regional Water Quality Control Board (RWQCB) and identifies pits and bodies of water sites suspected of containing hazardous substances where cleanup has not yet been completed. This program is also known as TPCA.  
- WMUDS/SWAT - California State Water Resources Control Board: managed by the local RWQCB. This program tracks the waste management units (solid waste disposal sites and facilities). Solid Waste Analysis Testing (SWAT) report summary information.
➢ LUST - California State Water Resources Control Board: the local RWQCB manages this database. It is an inventory of reported leaking Underground Storage Tank Incident Report.
➢ UST – California State Water Resources Control Board: this database is an inventory of historical (1990) underground storage tank sites.
➢ CORTESE – CALEPA, Office of Emergency Information: these sites are designated by the State Water Resource Control Board (LUST database), the Integrated Waste Management Board (SWF/LS database), and the Department of Toxic Substance Control (Cal-Sites database).

**California State Databases (ASTM Supplemental)**
➢ SLIC – Local Regional Water Quality Control Board: This database is the Spill Leaks Investigation Cleanup (SLIC) and is classified as voluntarily cleanup status by the responsible party with RWQCB oversight.

Relevant findings of the EDR database search within the minimum radius search distance of the property as specified by ASTM E-1527-00, Section 7.2.1.1.

### U. S. Federal Databases (ASTM Standard)

<table>
<thead>
<tr>
<th>Database</th>
<th>ASTM Criteria</th>
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<tbody>
<tr>
<td>NPL</td>
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<td>CERCLIS</td>
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</tr>
<tr>
<td>CERCLIS NFRAP</td>
<td>property; adjoining properties</td>
</tr>
<tr>
<td>RCRIS_TS</td>
<td>property; adjoining properties</td>
</tr>
<tr>
<td>RCRIS_LQG</td>
<td>property; adjoining properties</td>
</tr>
<tr>
<td>RCRIS_SQG</td>
<td>property; adjoining properties</td>
</tr>
<tr>
<td>ERNS</td>
<td>property only</td>
</tr>
<tr>
<td>CORRACTS</td>
<td>1 mile</td>
</tr>
</tbody>
</table>

### California State Databases (ASTM Standard)

<table>
<thead>
<tr>
<th>Database</th>
<th>ASTM Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cal-Sites</td>
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</tr>
<tr>
<td>(Include AWP and Ca Bond Exp. Plan)</td>
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</tr>
<tr>
<td>CHMIRS</td>
<td>property</td>
</tr>
<tr>
<td>SWF/LS</td>
<td>1 mile</td>
</tr>
<tr>
<td>TPCA</td>
<td>1 mile</td>
</tr>
<tr>
<td>WMUDS/SWAT</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>CORTESE</td>
<td>1 mile</td>
</tr>
<tr>
<td>LUST</td>
<td>0.5 mile</td>
</tr>
<tr>
<td>UST</td>
<td>property; adjoining properties</td>
</tr>
</tbody>
</table>

### California State Databases (ASTM Supplemental)

<table>
<thead>
<tr>
<th>Database</th>
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</thead>
<tbody>
<tr>
<td>SLIC</td>
<td>0.5 mile</td>
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Proprietary Databases (ASTM Supplemental)

<table>
<thead>
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<tbody>
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<td></td>
</tr>
<tr>
<td>Gas Sites----------------</td>
<td>1 mile---------</td>
</tr>
<tr>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

Summary of EDR Database Search

The Environmental Data Resources, Inc. (EDR) Report is attached to this report. The relevant summary of those sites in the EDR report that are pertinent for the subject property are discussed as follows:

Subject Property

The subject property is not listed in any of the databases searched by EDR.

Surrounding Properties

U. S. Federal Database

There were no surrounding properties listed in any of the U. S. Federal databases searched by EDR.

California State Database

<table>
<thead>
<tr>
<th>Database</th>
<th>ASTM Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cal-Sites</td>
<td>1 mile---------</td>
</tr>
<tr>
<td>(Include AWP and Ca Bond Exp. Plan)</td>
<td>10</td>
</tr>
<tr>
<td>CHMIRS</td>
<td>property ----------</td>
</tr>
<tr>
<td></td>
<td>12</td>
</tr>
<tr>
<td>CORTESE</td>
<td>1 mile---------</td>
</tr>
<tr>
<td></td>
<td>31</td>
</tr>
<tr>
<td>LUST</td>
<td>0.5 mile-------</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Cal-Sites: The California Cal-Sites Report contains information pertaining to potentially contaminated hazardous waste sites, sites formerly listed in the Annual Work plan (AWP), the Abandoned Sites Project Information System (AS-PIS), and the Bond Expenditure Plan (BEP) are included in the Cal-Sites Database.

There are ten sites within approximately one mile of the subject property listed on the EDR report. Nine of the listed sites are greater than ½ mile from the subject property.

According to the EDR GeoCheck Physical Setting Source Addendum, the regional groundwater flow direction is generally southwest near the subject property. However, the groundwater flow is known to vary seasonally.

The nearest site to the subject property is Redwood Chemical at 2450 Stony Point Road. This site is 2487 feet southwest of the subject property. The site does not require
DTSC action and has been referred to the RWQCB. This site is generally down gradient of the subject property. Given the distance and the groundwater flow direction, this site does not appear to represent a likely threat to the subject property.

The remaining nine sites are greater than ½ mile from the subject property. All are categorized as not requiring DTSC action and have been referred to the RWQCB. This implies that all these sites are potential groundwater problem sites. Three of these sites are up gradient of the subject property; all the others are either down gradient or cross gradient. The three sites that may represent a threat to the groundwater beneath the subject property are Fouche Bros. at 2290 Dutton Avenue, Santa Rosa Circuits at 35 / 48 Barham Avenue, and Santa Rosa Plating Works at 80 Barham Avenue.

The McMinn Avenue Site is listed as a Bond Expenditure Plan site. This is equivalent to the State Superfund site. There are 25 active cleanup sites within the McMinn Avenue Site. Most of the cleanup sites are along Sebastopol Avenue or north of Sebastopol Avenue. The McMinn Avenue Site is designated by Red Zone, Yellow Zone, and Blue Zone. The Red Zone designation is used to encompass the known limit of a release of halogenated volatile organic compounds (HVOCs) that has at least one source near the intersection of Sebastopol Road and West Avenue. The Yellow Zone encompasses the surrounding industrial and residential areas in Roseland that are known to have groundwater contamination from a variety of previous commercial and industrial activities in the area. Together the Red Zone and Yellow Zone define the boundaries of the McMinn Avenue Site. The Red and Yellow Zones also contain petroleum-related contamination. The Blue zone is a larger area where wells may have the potential to become contaminated from the McMinn site. The Blue Zone can extend up to 2000 feet down gradient of the Red Zone area.

Both the City of Santa Rosa and the County of Sonoma passed ordinances in 1999 that effectively prohibit drilling any new water supply wells inside the Red Zone, or within 2000 feet of the outer boundaries of the Red Zone. Under these new City and County ordinances, new water wells can only be installed if it can be proven that the well(s) will not affect the spread of contamination and the City/County approve the project. The subject property is approximately 2000 feet south of the Red Zone and approximately 800 feet south of the Yellow Zone. The McMinn Avenue Site represents a potential threat to the subject property. The subject property is likely within the Blue Zone.

**CHMIRS:** The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CHMIRS list, as provided by EDR, and dated December 31, 1994 has revealed that there are 12 CHMIRS sites within approximately 1-mile of the target property. However, none of the listed sites are on the subject property. Therefore, none of the listed sites represent a likely threat to the subject property.
**COTRESE:** This database identifies public drinking water wells with detectable levels of contamination. It also identifies hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release, and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the COTRESE list reveals that there are 31 listed sites within approximately one mile of the subject property. Twenty-nine of the 31 sites are listed under the COTRESE list because they were identified as UST sites having a reportable release (LUST). According to ASTM guidelines, LUST sites greater than ½ mile from the subject site should not represent a threat to the subject property. The remaining two sites are listed because they are under a Cleanup and Abatement Order from the Regional Water Quality Control Board. All the listed COTRESE sites are greater than ½ mile from the subject property. Consequently, none of these sites represent a likely threat to the subject property.

**LUST:** The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated January 17, 2002 has revealed that there are two LUST sites within approximately 0.5-mile of the subject property. The status of both sites is listed as “Signed off, remedial action completed or deemed unnecessary.” Therefore, these sites do not represent a likely threat to the subject property.

**California State Databases (ASTM Supplemental)**

<table>
<thead>
<tr>
<th>Database</th>
<th>ASTM Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLIC</td>
<td>0.5 mile</td>
</tr>
</tbody>
</table>

**SLIC:** The Spills Leaks Investigation Cleanup (SLIC) database lists any contaminated site that impacts groundwater or has the potential to impact groundwater. Two sites are listed. These two sites are the same as those listed under the LUST database. Both of these sites are categorized as “Facility Closed”. Therefore, neither site represents a likely threat to the subject property.

5.2 Additional Environmental Record Sources

Other sources contacted for information pertaining to the subject and nearby properties were as follows:

- United States Environmental Protection Agency, Region IX
- Regional Water Quality Control Board, North Coast Region
5.3 Physical Setting

5.3.1 Regional Physiographic Conditions

Exhibit C is the U. S. Department of Interior, Geological Survey, Santa Rosa Quadrangle 7.5-Minute Series topographic map. The general topographic gradient at the subject property is west southwest. This topographical map indicates that the subject property is relatively level with elevations around 139 feet above mean sea level (MSL).

An unnamed creek is approximately 0.25-mile to the northwest of the subject property. This creek is intermittent and flows southwest and away from the subject property.

5.3.2 Soil Conditions

Soil Survey, Sonoma County, California (U. S. Department of Agriculture) classifies the soil as predominantly in the Clear Lake series near the eastern portion of the property, and the Wright series near the western portion of the property. The Clear Lake series consists of clays that formed under poorly drained conditions. These soils are underlain by alluvium from basic and sedimentary rock. The Wright series consists of somewhat poorly drained and moderately well drained loams that have clay subsoil. These soils are underlain by old valley plain alluvium of mixed origin such as volcanic and marine sediment.

More specifically, the classification of the eastern portion of the subject property is predominantly in Clear Lake clay, 0 to 2 percent slopes (CeA). This soil is in poorly drained basins and on flood plains. Permeability is slow, runoff is slow, and the hazard of erosion is slight.

The western portion is classified as Wright loam, wet, 0 to 2 percent slopes (WhA). The A-horizon ranges from 20 to 30 inches in thickness and from very fine sandy loam to sandy clay loam in texture. The B-horizon ranges from 20 to 70 inches. Manganese stained incipient hardpan occurs below about 60 inches. The C-horizon ranges from fine sandy loam to clay in texture. Some gravel may occur in the lower part of the C-horizon. Permeability is very slow in the subsoil. Drainage is poor. Runoff is very slow, and the hazard of erosion is none to slight.

5.3.3 Geologic Conditions
**Geomorphic Provinces**

California is divided into eleven geomorphic provinces. The subject property in Sonoma County lies within the geomorphic province known as the Coast Range. The California Division of Mines and Geology describes the Coast Range as follows:

"The Coast Range consists of mountains (2,000-4,000, occasionally 6,000 feet elevation above sea level) and valleys. The ranges and valleys trend northwest, subparallel to the San Andreas Fault. The province terminates on the east where strata dip beneath alluvium of the Great Valley; on the west by the Pacific Ocean with mountains rising sharply from uplifted and terraced, wave-cut coast; on the north by South Fork Mountain, which has the characteristic trend of the Coast Ranges, and on the south by the Transverse Ranges. The Coast Range is composed of thick late Mesozoic and Cenozoic sedimentary strata. The northern and the southern ranges are separated by a depression containing the San Francisco Bay. Offshore, submarine canyons transect the continental shelf. The Monterey submarine canyon, 10,000 feet deep, is apparently a submerged river canyon. The northern Coast Ranges are dominated by irregular, knobby, landslide topography of the Franciscan Formation. Strike-ridges and valleys in Upper Mesozoic strata characterize the eastern border. In several areas, volcanic cones and flows of the Quien Sabe, Sonoma, and Clear Lake volcanic fields overlie Franciscan rocks. The Coast Range is subparallel to the rift valley of the active San Andreas Fault. The San Andreas is more than 600 miles long, extending from Pt. Arena to the Gulf of California. The Salinian block to the west of the San Andreas has a granitic core, extending from the southern extremity of the Coast Ranges to north of the Farallon Islands."

The Rodgers Creek Fault line lies approximately 2.25 miles to the northeast of the subject property. The Sebastopol Fault line lies approximately 5 miles southwest of the subject property.

**Groundwater Basin**

The subject property is located in the Santa Rosa Plain ground water basin. Based on review of the Geology of Santa Rosa Plain map, (Evaluation of Ground Water Resources: Sonoma County Volume 2: Santa Rosa Plain, Bulletin 118-4, September 1982), the area of the subject property is predominantly mapped as Alluvial Fan Deposits.

Alluvial Fan Deposits of Pleistocene and Holocene age form a nearly continuous blanket over the Santa Rosa Plain. The deposits consist of poorly sorted coarse sand and gravel and moderately sorted fine sand, silt, and silty clay; gravel content increases near the heads of the fans.

Lenses of very fine sand within the alluvial fan deposits frequently cause sanding problems in water wells. This sand is similar to the very fine-grained sand present in the Merced Formation; the Merced may be, in part, a source of this alluvial fan sand.
Minor amounts of methane gas have been noted in fan deposits in the southern Santa Rosa Plain. The gas may have arisen from an underlying formation, such as the Merced, and been trapped within the fan deposits by overlying impermeable clay.

5.3.4 Groundwater Conditions

Based on review of the Ground Water Elevations map, (Figure 10A, 10B, and 10C, Evaluation of Ground Water Resources: Sonoma County, Bulletin 118-4, September 1982), regional groundwater flow is west southwest in the Fall 1960, in the fall of 1975; and in the spring of 1980.

Water well identification system used by the State of California is based on Township, Range, and Section number referenced to the Mount Diablo base line and meridian. Utilizing this system, the subject property may be located as Township 7 North, Range 8 West, Section 27L (T7NR8W27L).

A review of the California Department of Water Resources, Division of Planning and Local Assistance Website shows that there is one well with pertinent data near the subject property. This well is identified as T7NR8W27N02M. This well location is estimated to be about 1320 feet southwest of the subject property and is at elevation 115 feet above mean sea level (MSL). Twenty-three records were available for review. The highest water level measured was 4.3 feet (April 27, 1993), and the lowest water level was measured at 13.4 feet below ground surface (October 19, 1994).

5.4 Results of Site History and Land Use Review

The ASTM standard requires a review of reasonably ascertainable standard historical sources. Reasonably ascertainable is defined as information that is publicly available, obtainable from a source with in reasonable time and cost constraints, and which is practical to review. The following standard historical sources for the subject property were researched: Sanborn Fire Insurance Maps, City Directory, City Records Review, personal interviews, historical aerial photographs, and previous environmental investigations.

5.4.1 Sanborn Fire Insurance Maps

No Sanborn Fire Insurance Maps covering the area of the subject property were located.

5.4.2 City Directory

An effort was made to research City Directories covering the subject property addresses. A City Directories report is included in Exhibit E of this report, however, no data was located indicating that no residential or commercial structures are known to have existed on the particular addresses historically.
5.4.3 County Records Review

*County of Sonoma, Permit and Resource Management Department*: Information obtained from this department is summarized in the Table 5.4.3 below.

Table 5.4.3: Data on record at Permit and Resource Management Department.

<table>
<thead>
<tr>
<th>Old Address</th>
<th>Date</th>
<th>New Address</th>
<th>Date</th>
<th>Permit No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1967 Burbank Ave.</td>
<td>Prior to 2/13/97</td>
<td>1990 Burbank Ave.</td>
<td>12/31/78</td>
<td>B034779</td>
<td>Inspection Time</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12/22/87</td>
<td>V128755</td>
<td>Building without permit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>04/20/96</td>
<td>B034779</td>
<td>Final old building</td>
</tr>
<tr>
<td>2000 Burbank Ave.</td>
<td>Prior to 2/13/97</td>
<td>2030 Burbank Ave.</td>
<td></td>
<td></td>
<td>No Activity</td>
</tr>
</tbody>
</table>

5.4.4 Aerial Photographs

Historic aerial photographs were obtained for this project from Environmental Data Resources (EDR) of Southport, Connecticut. The EDR Aerial Photograph report is numbered 734358-5 and dated February 19, 2002. Copies of the photographs are attached to this report, as a component of Exhibit E. Following is a brief discussion of the photographs.

- 1957, Flyer: Cartwright, Scale: 1”=666’. This photograph shows the subject property and surrounding areas as rural residential and agricultural in use. The subject property itself appears to be covered with an orchard of some type. No buildings are apparent on the subject property.

- 1965, Flyer: Cartwright, Scale: 1”=666’. This photograph is very similar to the 1957 photograph with the exception that the orchard seems less stable condition. Whether this is due to seasonal changes or orchard deterioration is unknown.

- 1982, Flyer: Western State Aerial, Scale: 1”=690’. This poor quality photograph makes determination of details difficult or impossible. However, it is possible to determine that the orchard is no longer present. The subject property appears as an open field. No buildings are apparent on the subject property in the photograph.

- 1994, Flyer: USGS, Scale: 1”=666’. This photograph shows the development of the City of Santa Rosa clearly. There is significant residential development in areas to the north, east and west. The industrial/ commercial development along Sebastopol Avenue to the north is clearly apparent. The subject property itself still appears as an open field. No structures are apparent in the photograph.
5.4.5 Synopsis of Previous and Current Environmental Investigations

No indications of prior or current environmental investigations were identified in the process of preparing this Phase I Environmental Site Assessment.

6.0 SITE RECONNAISSANCE

On February 21, 2002 a California Registered Environmental Assessor performed a Site Reconnaissance of the subject property. Following is the discussion of the observations made in the course of the Site Reconnaissance. Site photographs were taken of the property in the course of the Site Reconnaissance. These photographs are presented in Exhibit D of this report.

6.1 Methodology and Limiting Conditions

The method used in conducting the site reconnaissance consisted of viewing the subject property from various portions of the perimeter of the exterior property. In addition, visual observations of nearby properties were performed in an effort to identify conditions that potentially could negatively impact the subject site.

6.2 General Site Setting

The general site setting is mainly undeveloped property that is surrounded by various residential properties. The subject itself is undeveloped except of the fencing that surrounds it. General appearance suggests that the property may be, or has been used for animal grazing.

6.2.1 Subject Property

The subject property is undeveloped pastureland covered with annual grasses. There are no observable structures or any obvious improvements on the property other than a light duty fence that surrounds the property.

A water trough that is in fact a discarded bathtub is present along the front (western) fence line of the property. However, no animals were present on the property at the time of the site reconnaissance.
No indications of recognized environmental conditions were observed in the course of the site reconnaissance of the subject property.

6.2.2 Adjacent Off-Site and Vicinity Observations

All nearby properties appear to be residential or rural residential in use. No obvious indications of activities on nearby properties that would be deleterious to the subject property were observed in the course of the site reconnaissance.
7.0 INTERVIEWS

7.1 Interviews with Owner and Site Manager

The owner of the property was not interviewed in the course of this Environmental Site Assessment.

7.2 Interviews with Local Government Officials

➢ Staff at North Coast Regional Water Quality Control Board.
➢ Staff of the County of Sonoma, Office of Permit and Resource Management.
➢ Staff of the City of Santa Rosa, Department of Community Development.

7.3 Interviews with Others

Various individuals encountered while conducting the site reconnaissance of the site. These brief interviews were conducted in a casual conversational manner in an attempt to determine if there are any historic factors that would indicate an impact on the property.

8.0 FINDINGS

The subject property is mostly undeveloped. No obvious indications of Recognized Environmental Conditions were observed.

9.0 CONCLUSIONS

Harris & Lee Environmental Sciences has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Standard Practice E 1527-00 of that portion of the subject property designated as Assessor's Parcel Numbers 125-425-018 & 019 with the street address of 1990 and 2030 Burbank Avenue. The subject property is located in the City limits of Santa Rosa, California. This assessment has revealed no Recognized Environmental Condition in connection with the subject property as defined by the ASTM (Section 2.1 of this report).
10.0 OPINION

It is always prudent to maintain care in handling chemicals and any hazardous materials in any building or any property. Current and future tenants should be required to verify that they are complying with the regulations that pertain to waste disposal, storage of hazardous materials and any health and safety issues. It is pertinent to be reminded that the building / property owner is ultimately responsible for the environmental compliance that occurs in any building or on any property. Thus, if a tenant is not in compliance, the owner, who has nothing to do with the tenant’s operations, can be held responsible.

11.0 DEVIATIONS

There are no deviations in this Environmental Site Assessment from the ASTM Standard Practice E-1527-00.

12.0 ADDITIONAL SERVICES

No additional services beyond the ASTM Standard Practice were added to this report.

13.0 REFERENCES

13.1 Published References


USDA, Soil Conservation Service, January 1991, Soil Survey of Sonoma County,
California.

U. S. Geological Survey, 7.5-Minute Santa Rosa Quadrangle Topographical Map: Scale 1:24,000.

13.2 Unpublished References

Environmental Data Resources, Inc, The EDR-Radius Map, Inquiry Number 734358.3s for Burbank Housing Development Corporation, 2010 Burbank Avenue, Santa Rosa, California 95407, February 13, 2002.

Environmental Data Resources, Inc., The EDR-City Directory Abstract, Inquiry Number 734358-7 for Burbank Housing Development Corporation, 2010 Burbank Avenue, Santa Rosa, California 95407, February 15, 2002.

Environmental Data Resources, Inc., Sanborn Map Report, Inquiry Number 734358.4S, for Burbank Housing Development Corporation, 2010 Burbank Avenue, Santa Rosa, California 95407, February 13, 2002.

Environmental Data Resources, Inc., Aerial Decade Package, Inquiry Number 734358-5 for Burbank Housing Development Corporation, 2010 Burbank Avenue, Santa Rosa, California 95407, February 19, 2002.
14.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

PROFESSIONAL PROFILE

Robert S. Harris

TITLE: Partner/Senior Scientist: Harris & Lee Environmental Sciences
       Partner: Lee Seeley & Harris

EXPERTISE: Thirty-five (35) years experience in Environmental Analytical
           Chemistry and Environmental Toxicology. Efforts involved full research
           laboratory supervision for the University of California as well as
           commercial laboratories involved in Environmental Analytical
           Chemistry. Developed and refined the now standard method for PCB
           Analysis in various matrices. Mr. Harris has supported Risk
           Assessments, Site Audits, Health and Safety Management programs,
           and Hazardous Waste Management Programs. In addition, Mr. Harris
           has brought electronic data management technology into major
           petroleum industry members including Exxon, USA, Chevron USA,
           Texaco, USA, Mobil Oil Corporation, Atlantic Richfield (ARCO),

EXPERIENCE: Laboratory Director for the University of California for 11 years
             beginning in 1964; operated laboratories on the Davis Campus and
             the Hopland Field Station in Mendocino County, California. Published
             12 research papers during time with the University of California.

             Founded Multi-Tech Laboratories in Ukiah in 1974. Established
             laboratories in Ukiah, California and Santa Rosa, California. Multi-
             Tech Laboratories was for several years one of the larger laboratories
             in California. During this time Mr. Harris developed several
             methodologies for environmental analysis, including the standard
             method for the analyses of Polychlorinated Biphenyls (PCB's) in water,
             soils, and oils. When the laboratory became a part of Environmental
             Testing and Certification Corporation, Mr. Harris was an Executive
             Vice President of the company in charge of western United States
             operations.

             Established American Technologies in 1992 and developed it in the
             United States and Mexico. Changed name of American Technologies
             to Harris & Lee Environmental Sciences in 1997. Development and
             refinement of the concept of environmental management where toxic
             risk evaluation and regulatory requirements guide the project
             oversight. Supervised the management and orchestration of source
             monitoring in Southern California. In Northern California, development
             of a waste minimization program that converted a waste costing
             $120,000 per month for disposal into a usable fuel to operate high
pressure steam boilers.

Has carried out property transfer assessments and aided in the control and management of environmental as well as health and safety risk. In this capacity, Mr. Harris has used his knowledge of the sciences of chemistry and toxicology to properly identify risks that are real and to separate these from situations where the risk is suspected but not real. In this capacity, Mr. Harris has assisted lending institutions, insurance companies, real estate professionals, and law firms in identifying chemical profiles and characteristics in toxic situations and managing environmental risk. Mr. Harris has extensive experience in litigation support and expert testimony in areas of environmental chemistry and industrial process chemistry.

ACADEMIC BACKGROUND: BS. Zoology, Minor, Chemistry, University of California, Davis, 1964 MS, Biology, emphasis Biochemistry, California State University, Sonoma, 1972

PUBLICATIONS: Published approximately 12 times in the fields of agricultural chemistry, neurophysiology, and animal physiology.


PROFESSIONAL AFFILIATIONS: American Chemical Society American Association for the Advancement of Science American Water Works Association Rotary International

CERTIFICATIONS: California Registered Environmental Assessor REA #4966
PROFESSIONAL PROFILE

Jack M. Lee

TITLE: Partner/Senior Scientist: Harris & Lee Environmental Sciences
Partner: Lee, Seeley & Harris

EXPERTISE: Thirty-three (33) years of experience in all aspects of environmental regulatory compliance and management that includes Public Health aspects. Mr. Lee has been a leader and team member in many environmental projects, both public and private. Mr. Lee initiated environmental programs for several environmental firms. Mr. Lee established and implemented the Hazardous Material Program for the County of Sonoma. At Stanford Linear Accelerator Center, he implemented the Hazardous Materials and Environmental Program.

EXPERIENCE: Mr. Lee handles all matters relating to regulatory interface, matters pertaining to public health, as well as project planning at Harris & Lee Environmental Sciences. Since joining American Technologies (which later became Harris & Lee Environmental Sciences), Mr. Lee has planned and managed many projects including large and small investigations, remediation projects, implementation of innovative remediation strategies, and complex regulatory interface. He has carried out property transfer assessments and aided in the control and management of environmental health and safety risk. With his regulatory background and his knowledge of the environmental sciences, Mr. Lee has assisted lending institutions, insurance companies, real estate professionals, and law firms in assessing and managing environmental risk that are significant verse those that are perceived.

Mr. Lee has managed a number of environmental audits and investigations of underground tank sites. His activities included regulatory permit applications, evaluation of tank systems, inventory reconciliation procedures for leak detection, and groundwater investigation of leaking fuel tanks. Mr. Lee has conducted operator training, inspections, and evaluations of tanks and upgrading or removal of tanks. He has developed and implemented sampling programs for groundwater investigations and soil contamination studies. Relevant clients included Hewlett Packard, Port of Oakland, and U. S. Army Corps of Engineers.

As a Hazardous Materials Specialist, Mr. Lee was responsible for the planning, implementing, and administering of a comprehensive regulatory Hazardous Materials Management Program for the County of Sonoma. This included programs in underground storage tank management, leaking underground storage tank investigation, and emergency incident response. Mr. Lee interacted with state and federal agencies to
standardize these regulations. Provided training to other Environmental Health Specialists in all aspects of hazardous materials/waste management. Conducted seminars for underground storage tank owners and operators.

Mr. Lee was responsible for the implementation of a hazardous materials management and environmental compliance programs for Stanford Linear Accelerator Center. This included analysis and classification of hazardous materials, maintenance of required records, and submission of reports. He has performed routine environmental audits and assessments. He served as the interface between the Technical Services Director and all regulatory agencies. This required extensive knowledge of regulatory statutes and their implementing regulations with their specific impacts on the facility. He provided training to employees in emergency response incidents to minor chemical spills, health and safety practices, and general industrial hygiene.

As a member of EPA Region IX Field Investigation Team of Uncontrolled Hazardous Waste Sites, Mr. Lee was involved with a number of investigations, both as a team member and as a project leader. Several of these projects became major Superfund Sites; among them were General Disposal in Santa Fe Springs, Stringfellow Acid Pits, McColl dumpsite, and Tucson Water. Was commended for outstanding work accomplished under adverse conditions on the quality assurance project using the MITRE model. This is the forerunner to the Hazardous Ranking System (HRS) used by EPA to rank and place sites on the national priority list (NPL). This is still being used today.

ASSOCIATIONS AND REGISTRATIONS:
Registered Environmental Assessor, California # 01521
Registered Environmental Health Specialist, # 3355
National Environmental Health Association
Association for the Environmental Health of Soils

ACADEMIC BACKGROUND:
BS Fisheries Biology, Humboldt State University, 1965

15.0 APPENDICES
Exhibit A

Vicinity Map
Exhibit B

Assessor's Parcel Map
Exhibit C

U.S.G.S 7.5-Minute Topographic Map
Santa Rosa Quadrangle
Exhibit D

Site Photographs
View looking south on Burbank Avenue from the northwest corner of the subject property. The western fence line of the property is visible on the left of this photograph.

View looking north on Burbank Avenue from the northwest corner of the subject property.

View looking east across the subject property.

View looking southeast across property.
Exhibit E

Environmental Data Resources Reports
(Radius Map & Report, Sanborn Map Search Report, City Directories Search and Report)
The EDR-Aerial Photography Print Service

Burbank Housing Development Co
2010 Burbank Avenue
Santa Rosa, CA 95407

February 19, 2002

Inquiry Number: 734358-5

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Sanborn® Map Report

Ship to: Robert S. Harris
Harris & Lee Env. Sciences
2508 Saddleback Court
Santa Rosa, CA 95401

Order Date: 2/13/2002  Completion Date: 02/14/2002
Inquiry #: 734358.4S
P.O. #: 2010 burbank
Site Name: Burbank Housing Development Corp.
Address: 2010 Burbank Avenue
City/State: Santa Rosa, CA 95407
Cross Streets:

1017904SMO  707-571-8961

This document reports that the largest and most complete collection of Sanborn fire insurance maps has been reviewed based on client-supplied information, and fire insurance maps depicting the target property at the specified address were not identified.

NO COVERAGE

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The EDR-City Directory

Abstract

Burbank Housing Development Co
2010 Burbank Avenue
Santa Rosa, CA  95407

February 15, 2002

Inquiry Number: 734358-7

The Source
For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Environmental Data Resources, Inc.

City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of reasonably ascertainable standard historical sources. Reasonably ascertainable means information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically verifiable.

To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following standard historical sources may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 requires "All obvious uses of the property shall be identified from the present, back to the property's oldest first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful." (ASTM E 1527-00, Section 7.3.4, page 12.)

EDR's City Directory Abstract includes a search and abstract of available city directory data.

City Directories

City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1527-00 specifies that a "review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice." (ASTM E 1527-00, Section 7.3.4, page 12.)

Please call EDR Nationwide Customer Service at 1-800-352-0050 (8am-8pm EST) with questions or comments about your report. Thank you for your business!

Disclaimer

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4. SUMMARY

- City Directories:

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1972 through 2000. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.
**Date EDR Searched Historical Sources:**
City Directories Feb 15, 2002

**Target Property:**
2010 Burbank Avenue
Santa Rosa, CA  95407

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<td>1972</td>
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<td></td>
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<td>Address not Listed in Research Source</td>
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</tr>
<tr>
<td></td>
<td>2000</td>
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**Adjoining Properties**

**SURROUNDING**
Multiple Addresses
Santa Rosa, CA  95407

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<tr>
<td>------</td>
<td>------</td>
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<td></td>
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<tr>
<td></td>
<td>Residence (2017)</td>
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<tr>
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<tr>
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<td></td>
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<tr>
<td></td>
<td>Residence (2003)</td>
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<td></td>
</tr>
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<td></td>
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<tr>
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<td>2000</td>
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<tr>
<td></td>
<td>Residence (2017)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Glossary of Terms

A.A.A.  
Aerial photograph flyer: Agriculture Adjustment Administration (Federal).

A.S.C.S  
Aerial photograph flyer: Agricultural Stabilization and Conservation Service (Federal)

Address in Research Source  
Indicates that a property is listed at a different address than the one provided by the user. Generally occurs when a property is located on a corner or, when the physical address of a property is different than its mailing address.

Address Not Listed in Research Source  
Occurs when a specific site address is not listed in city directories and/or fire insurance maps.

Adjoining  
Any property that is contiguous, or a property that would be contiguous if not for a public thoroughfare, to the target property. To differentiate from each adjoining property, stand at the target property’s “front door” facing the street.

Adjoining Back  
Property directly to the rear of the target property. (Applies only to fire insurance map data.)

Adjoining Front  
Property directly in front of the target property. (Applies only to fire insurance map data.)

Adjoining Left  
Property directly to the left of the target property. (Applies only to fire insurance map data.)

Adjoining Right  
Property directly to the right of the target property. (Applies only to fire insurance map data.)

Adjoining Surrounding Area  
Property that may adjoin the target property but due to lack of specific map information cannot be located precisely. This situation typically occurs when city directory information, but not fire insurance map information, is available.

C.A.S  
Aerial photograph flyer: Chicago Aerial Survey (private).

C.S.S.  
Aerial photograph flyer: Commodity Stabilization Service (Federal).

Cartwright  
Aerial photograph flyer: Cartwright (private)

CD  
City Directory
Commercial
Any property including, but not limited to, property used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; property used for residential purposes that has more than four residential dwelling units.

Commercial or Industrial
Property that has either a commercial or an industrial use. Examples include retail stores, manufacturing facilities, factories, and apartment buildings.

D.N.R.
Aerial photograph flyer: Department of National Resources (state).

D.O.T.
Aerial photograph flyer: Department of Transportation (state).

Fairchild
Aerial photograph flyer: Fairchild (private).

FIM
Fire Insurance Map

Flood Insurance Rate Maps
Flood Insurance Rate Maps are produced by the Federal Emergency Management Agency (FEMA). These maps indicate special flood hazard areas, base flood elevations and flood insurance risk zones.

Flood Prone Area Maps
Flood Prone Area maps are produced by the United States Geological Survey (USGS). Areas identified as flood prone have been determined by available information gathered from past floods.

F.S.
Aerial photograph flyer: Forest Service (Federal).

Geonex
Aerial photograph flyer: Geonex (private).

M.C.
Aerial photograph flyer: Metropolitan Council of the Twin Cities Area (state).

Mark Hurd
Aerial photograph flyer: Mark Hurd (private)

N.A.P.P.
Aerial photograph flyer: National Aerial Photography Program (Federal).
National Wetland Inventory Maps
National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a division of the U.S. Department of the Interior. Wetland and deepwater habitat information is identified on a 7.5 minute U.S.G.S. topographic map. The classification system used categorizes these habitats into five systems: marine, estuarine, riverine, lacustrine and palustrine.

No Return
Indicates that site owner was unavailable at time of surveyor’s contact. *(Applies only to city directories.)*

No Structure Identified on Parcel
Used when site boundaries and/or site address is indicated on a fire insurance map; no structure details exist.

Other
Occurs when the site’s classification is different than EDR’s standard categories. Examples may include undeveloped land and buildings with no specified function.

P.M.A.
Aerial photograph flyer: Production and Marketing Administration (Federal).

Pacific Aerial
Aerial photograph flyer: Pacific Aerial (private)

Portion
Refers to the fire insurance map information identified on the four quadrants of a target or adjoining property. The portions are referred to as FrontRight, FrontLeft, BackRight, and BackLeft and are determined as if one were standing at the front door, facing the street.

Property Not Defined
Used when property is not clearly demarcated on a fire insurance map.

Residential
Any property having fewer than five dwelling units used exclusively for residential purposes.

Residential with Commercial Uses (a.k.a. Multiple Purpose Address)
A business (firm) and residence at the same address. Examples include a doctor, attorney, etc. working out of his/her home.

Sidwell
Aerial photograph flyer: Sidwell (private).

Site Not Mapped
Occurs when an adjoining property has not been mapped by fire insurance map surveyors. *(Applies only to fire insurance map data.)*

Teledyne
Aerial photograph flyer: Teledyne (private)

Topographic Maps
Topographic maps are produced by the United States Geological Survey (USGS). These maps are color coded line and symbol representations of natural and selected artificial features plotted to scale.

Turnbow
Aerial photograph flyer: Michael Turnbow (private)
U.S.D.A.
Aerial photograph flyer: United States Department of Agriculture (Federal).

U.S.D.I.
Aerial photograph flyer: United States Department of the Interior (Federal).

U.S.G.S.
Aerial photograph flyer: United States Geological Survey (Federal).

Vacant
May refer to an unoccupied structure or land. *Used only when fire insurance map or city directory specifies 'vacant.'*

W.P.A.
Aerial photograph flyer: Works Progress Administration (Federal).

WALLACE
Aerial photograph flyer: Wallace (private).
Mr. Bill Monahan  
Burbank Housing Development Corporation  
3432 Mendocino Avenue  
Santa Rosa, CA 95403

RE: 1980 & 2010 Burbank Avenue, Santa Rosa, California  
Sonoma County Assessor’s Numbers: 125-421-018 & 019

Dear Mr. Monahan:

Pursuant to your request and assignment, Harris & Lee Environmental Sciences has conducted an Environmental Site Survey on the properties noted above and located on Burbank Avenue, in the County of Sonoma, California. The physical addresses that apply to these properties are 1980 and 2010 Burbank Avenue; they are also identified by Sonoma County Assessor’s Parcel Numbers 125-421-018 and 019. The County of Sonoma Zoning for these properties is RRB6, which denotes a residential usage with 4-acre minimums. Also, these properties are being held by the county pending annexation by the City of Santa Rosa.

The purpose of this Environmental Site Survey is to assist the property owner in minimizing liability exposure due to environmental issues. This Environmental Site Survey consists of a site reconnaissance, an environmental radius report (computer database search), a brief evaluation of the environmental radius report, and production of this letter report. The information contained in this letter report is limited by client request to those referenced activities.

This Environmental Site Survey is not a Phase I Environmental Site Assessment. It does not conform to the guidelines established by the American Society for Testing Materials (ASTM) standard E-1527 due to the elimination of some components of the E-1527 Standard in this report. Also the Scope of Service does not include analysis of Asbestos Containing Materials (ACM), although if obvious visual indications of ACM are observed they are reported. Neither does the Scope of Service include analysis of the building constituents for lead based paint. However, this Environmental Site Survey attempts to parallel ASTM standards and terminology as closely as possible within the constraints as dictated by the client.
Site Reconnaissance

A site reconnaissance of the subject and surrounding properties was conducted on July 12, 2001. The following observations were noted during the site reconnaissance. Mr. Jeffrey Freiberg provided some additional information regarding the facility.

Subject Property

The subject properties are two large parcels designated by the Sonoma County Assessor’s Parcel Numbers 125-421-018 and 125-421-019. Each parcel is 2.5 acres in area; the parcels are contiguous with no clearly delineated property line visible. The parcels are located on the east side of Burbank Avenue approximately 1/3 mile north of the intersection of Burbank Avenue and Hearn Avenue. As of the date of this report, the properties are undeveloped with the exception of the fencing that surrounds the two parcels and the remains of a former barn type structure on the north side of 1980 Burbank Avenue (APN: 125-421-019). The parcels are covered with dry annual grasses that appear to have been mowed in the spring prior to this report.

The County of Sonoma zoning for these parcels is RRB6, which denotes a residential usage with a 4-acre minimum that is in a holding condition pending annexation by the City of Santa Rosa. The planned usage is for residential purposes.

No indications of recognized environmental conditions were observed in the course of the site reconnaissance of the subject property.

Surrounding Properties

Nearby properties appear to all be residential and rural residential in use. Many parcels have multiple units located upon them. None of the nearby properties appear to have uses that would adversely affect the subject property.

Environmental Radius Report by Environmental Data Resources, Inc. Report

The standard environmental record sources were obtained through a computer data bank search company, Environmental Data Resources, Inc. of Southport, Connecticut. Computer data bank searches for active sites can be useful in locating sites that may have the potential to adversely impact the subject site. It is important to keep in mind that computer database searches provide general overview data and may not be precise in the data that is presented. Consequently, an investigator needs additional familiarity with active sites to properly interpret the data that is provided.

The Environmental Data Resources Report is dated July 10, 2001 with Inquiry Number: 654583.1s. The report accessed a number of active federal, state, and local databases. A comprehensive listing of government records searched are listed in the Appendix. The pertinent lists of the databases accessed and reviewed include the following.
U.S. Federal Standard Databases:
- United States Environmental Protection Agency Superfund Sites (NPL).
- United States Environmental Protection Agency Potential Superfund Sites (CERCLIS and CERC-NFRA).
- ERNS – Emergency Response Notification System.
- CORRACTS – Corrective Action Report identifies hazardous waste handlers with RCRA corrective action activity.

California State Standard Databases:
- CAL-SITES – California Environmental Protection Agency (CALEPA), Department of Toxic Substance Control: Annual Work plan Program (AWP), this is the former Bond Expenditure Plan (BEP). Also included in this database are the potentially or confirm contaminated sites under the Abandoned Site Program (ASPIIS).
- SWF/LS - California Integrated Waste Management Board: this database consists of active, closed, and inactive Landfills and Disposal Sites.
- Toxic Pits – California State Water Resources Control Board: This database is managed by the local Regional Water Quality Control Board (RWQCB) and identifies pits and bodies of water sites suspected of containing hazardous substances where cleanup has not yet been completed. This program is also known as TPCA.
- WMUDS/SWAT - California State Water Resources Control Board: managed by the local RWQCB. This program tracks the waste management units (solid waste disposal sites and facilities). Solid Waste Analysis Testing (SWAT) report summary information.
- LUST - California State Water Resources Control Board: the local RWQCB manages this database. It is an inventory of reported leaking Underground Storage Tank Incident Report.
- UST – California State Water Resources Control Board: this database is an inventory of historical (1990) underground storage tank sites.

California State Databases (ASTM Suplemental)
- CORTESE – CALEPA, Office of Emergency Information: these sites are designated by the State Water Resource Control Board (LUST database), the Integrated Waste Management Board (SWF/LS database), and the Department of Toxic Substance Control (Cal-Sites database).
- SLIC – Local Regional Water Quality Control Board: This database is the Spill Leaks Investigation Cleanup (SLIC) and is classified as voluntarily cleanup status by the responsible party with RWQCB oversight.

Relevant findings of the EDR database search within the minimum radius search distance of the property as specified by ASTM E-1527-00, Section 7.2.1.1.
U. S. Federal Databases (ASTM Standard)

NPL --------------------- 1 mile------------------------ 0
CERCLIS --------------------- 0.5 mile ------------------------ 0
CERCLIS NFRAP --------------------- property; adjoining properties ---- 0
RCRIS_TS --------------------- property; adjoining properties ---- 0
RCRIS_LQG --------------------- property; adjoining properties ---- 0
RCRIS_SQG --------------------- property; adjoining properties ---- 0
ERNS --------------------- property only --------------------- 0
CORRACTS --------------------- 1 mile --------------------- 0

California State Databases (ASTM Standard)

Cal-Sites --------------------- 1 mile------------------------ 10
(Include AWP and Ca Bond Exp. Plan)
SWF/LS --------------------- 1 mile ------------------------ 0
TPCA --------------------- 1 mile ------------------------ 0
WMUDS/SWAT --------------------- 0.5 mile ------------------------ 0
LUST --------------------- 0.5 mile ------------------------ 0
UST --------------------- property; adjoining properties ---- 0

California State Databases (ASTM Supplemental)

CORTESDA --------------------- 1 mile------------------------ 18
SLIC --------------------- 0.5 mile ------------------------ 2

Proprietary Databases (ASTM Supplemental)

Former Manufactured
Gas Sites --------------------- 1 mile------------------------ 0

Summary of EDR Database Search

The Environmental Data Resources, Inc. (EDR) Report is attached to this report. The relevant summary of those sites in the EDR report that are pertinent for the subject property are discussed as follows:

Subject Property

The subject property is not listed in any of the databases searched by EDR.

Surrounding Properties

U. S. Federal Database

There were no surrounding properties listed in any of the U. S. Federal databases searched by EDR.

California State Database
Cal-Sites: The California CalSites Report contains information pertaining to potentially contaminated hazardous waste sites, sites formerly listed in the Annual Work plan (AWP), the Abandoned Sites Project Information System (ASPIS), and the Bond Expenditure Plan (BEP) are included in the CalSites Database.

There are ten sites within approximately one mile of the subject property listed on the EDR report. Nine of the listed sites are greater than ½ mile from the subject property.

According to the EDR GeoCheck Physical Setting Source Addendum, the regional groundwater flow direction is generally southwest near the subject property. However, the groundwater flow is known to vary seasonally.

The nearest site to the subject property is Redwood Chemical at 2450 Stony Point Road. This site is 2487 feet southwest of the subject property. The site does not require DTSC action and has been referred to the RWQCB. This site is generally down-gradient of the subject property. Given the distance and the groundwater flow direction, this site does not appear to represent a likely threat to the subject property.

The remaining nine sites are greater than ½ mile from the subject property. All are categorized as not requiring DTSC action and have been referred to the RWQCB. This implies that all these sites are potential groundwater problem sites. Three of these sites are up gradient of the subject property; all the others are either down gradient or cross-gradient. The three sites that may represent a threat are Fouche Bros. at 2290 Dutton Avenue, Santa Rosa Circuits at 35/48 Barham Avenue, and Santa Rosa Plating Works at 80 Barham Avenue.

The McMinn Avenue Site is listed as a Bond Expenditure Plan site. This is equivalent to the State Superfund site. There are 25 active cleanup sites within the McMinn Avenue Site. Most of the cleanup sites are along Sebastopol Avenue or north of Sebastopol Avenue. The McMinn Avenue Site is designated by Red Zone, Yellow Zone, and Blue Zone. The Red Zone designation is used to encompass the known limit of a release of halogenated volatile organic compounds (HVOCS) that has at least one source near the intersection of Sebastopol Road and West Avenue. The Yellow Zone encompasses the surrounding industrial and residential areas in Roseland that are known to have groundwater contamination from a variety of previous commercial and industrial activities in the area. Together the Red Zone and Yellow Zone define the boundaries of the McMinn Avenue Site. The Red and Yellow Zones also contain petroleum-related contamination. The Blue zone is a larger area where wells may have the potential to become contaminated from the McMinn site. The Blue Zone can extend up to 2000 feet down-gradient of the Red Zone area.

Both the City of Santa Rosa and the County of Sonoma passed ordinances in 1999 that effectively prohibit drilling any new water supply wells inside the Red Zone, or within 2000 feet of the outer boundaries of the Red Zone. Under these new City and County
ordinances, new water wells can only be installed if it can be proven that the well(s) will
not affect the spread of contamination and the City/County approve the project. The
subject property is approximately 2000 feet south of the Red Zone and approximately
800 feet south of the Yellow Zone. The McMinn Avenue Site represents a potential
threat to the subject property. The subject property is likely within the Blue Zone.

**California State Databases (ASTM Supplemental)**

**CORTESE**: This database identifies public drinking water wells with detectable levels of
contamination. It also identifies hazardous substance sites selected for remedial action,
sites with known toxic material identified through the abandoned site assessment
program, sites with USTs having a reportable release, and all solid waste disposal
facilities from which there is known migration. The source is the California
Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list reveals that there are 18 listed sites within approximately
one mile of the subject property. All 18 sites are listed under the Cortese list because
they were identified as UST sites having a reportable release (LUST). According to
ASTM guidelines, LUST sites greater than ½ mile from the subject site should not
represent a threat to the subject property. All 18 listed Cortese sites are greater than ½
mile from the subject property. Consequently, none of these sites represent a likely
threat to the subject property.

**SLIC**: The Spills Leaks Investigation Cleanup (SLIC) database lists any contaminated
site that impacts groundwater or has the potential to impact groundwater. Two sites are
listed. Both of these sites are categorized as "Facility Closed". Therefore, neither site
represents a threat to the subject property.

**Summary**

In summary, there are several surrounding sites identified in available government
records that may present ground water threats to the subject site. The potential risk
involves the potential use of groundwater as a domestic water supply source.

**Conclusion**

In the course of performing this Environmental Site Survey, no recognized environmental
condition was observed.

Recognized environmental conditions are defined as:

*The presence or likely presence of any hazardous substances or petroleum
products on a property under conditions that indicate an existing release, a past
release, or a material threat of a release of any hazardous substances or
petroleum products into structures on the property or into the ground,*
groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. (ASTM E 1527-97 & E 1528 1.1.1)

Recommendations

While no recognized environmental conditions were observed or identified in the course of this Environmental Site Survey, it should be noted that any development of this property would likely require the use of municipal water. It is unlikely that domestic wells would be permitted given the property’s proximity to the McMinn Study Area. However, with the use of municipal water and sewer services, there would not likely be a threat from the McMinn site.

Harris & Lee Environmental Sciences reminds the client that it is always prudent to maintain care in handling chemicals and any hazardous materials in any building or any property. Possible future tenants should be required to verify that they are complying with the regulations that pertain to waste disposal, storage of hazardous materials, and any health and safety issues. It is pertinent to be reminded that the building / property owner is ultimately responsible for the environmental compliance that occurs in any building or on any property. Thus, if a tenant is not in compliance, the owner, who has nothing to do with the tenant’s operation, can be held responsible.

Limitations

This work has been performed in accordance with generally accepted environmental investigation practices for similar investigations conducted at this time and in this geographic area. No other guarantee or warranties, expressed or implied are provided.

The scope of work performed to complete this Environmental Site Survey was limited in nature. While we consider work of this type to be valuable in the preliminary evaluation of potential hazardous materials or waste at the site, we also must alert the Client that this study may not reveal hazardous materials releases that have occurred. Also, the site conditions can change with time, and our assessment was not intended to predict future site conditions. Because of the limited nature of this assessment, site history was developed based only on information provided by the Client and a review of available regulatory files on this site and near-by sites. This report is not a risk assessment and the Scope of Work does not include a determination of the extent of, nor the environmental or public health impact of, known or suspected hazardous materials or wastes.

It is understood by the parties hereto that the Client who has requested this assessment will use the assessment (in addition to other information) to provide information to a lender, or investors in the property, or for the purposes of refinancing or purchasing said property. Consultant intends no other use or disclosure. Client agrees to hold Consultant harmless for
any inverse condemnation or devaluation of said property that may result if the Consultant's report or information generated is used for other purposes. Also, this report is issued with the understanding that it is to be used only in its entirety. Only Burbank Housing Development Corporation may rely upon this report. No other entity may rely upon this report without express written consent of Harris & Lee Environmental Sciences.

We trust that the foregoing has satisfied your requirements of a brief review of the subject property. If you have any questions regarding the report, please do not hesitate to contact us.

Very sincerely yours,

[Signature]

Robert S. Harris, REA #4966
Harris & Lee Environmental Sciences
Appendix G – Entitlements

- **Sonoma County Board of Supervisors.** *Resolution No. 11-0169, Adopting the MND and Zone Change to add AH Combining District Designation.* April 5, 2011. File No. PLP09-0101.

- **Sonoma County Permit and Resource Management Department.** *Mitigated Negative Declaration, Crossroads.* Publication Date: February 15, 2011; Adoption Date: March 10, 2011. File No.: PLP09-0101.

- **City Council of the City of Santa Rosa.** *Resolution No. 27696, Utility Certificate to Allow Sewer and Water Service for the Crossroads Affordable Housing Project.* August 3, 2010.
Resolution Of The Board Of Supervisors Of The County Of Sonoma, State Of California, Adopting The Mitigated Negative Declaration And Approving The Request By Burbank Housing Development Corp. For A Zone Change To Add The AH (Affordable Housing) Combining District Designation To Allow For A 79-Unit Affordable Housing Project Located At 1990-2330 Burbank Avenue, Santa Rosa, APNS 125-421-018 And -019.

Whereas, the applicant, Burbank Housing Development Corp., filed an application with the Sonoma County Permit and Resource Management Department for: 1) a Zone Change to add the AH (Affordable Housing) Combining District Designation; and 2) Design Review, to allow development of the Crossroads Affordable Housing project, consisting of 79 units with from one to three bedrooms affordable to households with very-low and low incomes. Also included in the project is a community building of 3,000 square feet with management offices and a laundry room for residents for property located at 1990-2330 Burbank Avenue, Santa Rosa, APNs 125-421-018 and -019; Zoned: RR (Rural Residential), VOH (Valley Oak Habitat); Supervisorial District 5; and

Whereas, a Mitigated Negative Declaration was prepared and posted for the proposed project in accordance with the appropriate law and guidelines; and

Whereas, the rezoning is consistent with the General Plan Land Use designation of Urban Residential 5 units per acre with the application of the AH (Affordable Housing) Combining District; and

Whereas, at its regularly scheduled meeting on March 10, 2011, the Planning Commission, with a 5-0 vote, recommended adoption of the Mitigated Negative Declaration and approval of the proposed project to the Board of Supervisors; and

Whereas, at its regularly scheduled meeting on April 5, 2011, the Board of Supervisors held a duly noticed public hearing, at which time all interested persons were given an opportunity to be heard.

Now, Therefore, Be It Resolved, that the Board of Supervisors makes the following findings:

1. The project meets the designation criteria for the AH (Affordable Housing) combining district designation of the General Plan and Zoning Code in that the site is located in an Urban Service Area, adequate access, public services, and infrastructure will be provided, the site is at least ½ acre in size; the as-built density will be 20 units per acre consistent with the range for the -AH Combining District; and the project consists entirely of units affordable to extremely-low, very-low and low-income
2. The development and operation of the proposed development is consistent with Objective HE-3.2 of the Sonoma County General Plan in that it provides 79 apartment units affordable to very-low and low-income households, and the proposed as-built density of 20.66 units/acre is allowed by the AH (Affordable Housing) combining district and by Government Code Section 65915 (Density Bonus Program).

3. The proposed project is consistent with the Sonoma County General Plan Housing Element in that it provides increased restricted affordable housing units through the application of the Housing Element's AH (Affordable Housing) combining district program. An incentive has been granted to allow a portion of the required parking to be provided on-street rather than off-street.

4. The requested incentives are reasonable and necessary, based on the provision of seventy-nine (79) affordable rentals units. To meet the AH designation criteria, all of the units with the exception of a manager's unit will be subject to a long-term Affordability Agreement administered by the County’s Community Development Commission (CDC).

5. Drainage patterns will be altered by this project, but all building and grading will be carried out under permits which will undergo review by the PRMD Storm Water Section to ensure compliance with State and local laws related to drainage and storm water control.

6. The establishment, maintenance or operation of the use for which application is made will not, under the circumstances of this particular case and subject to the Conditions of Approval, be detrimental to the health, safety, peace, comfort and general welfare of persons residing or working in the neighborhood of such use, nor be detrimental or injurious to property and improvements in the neighborhood or the general welfare of the area. The particular circumstances in this case are that the residential use, which is allowed on this property, shall be continually managed by the property management company; that adequate parking has been provided in that there will be 1.72 spaces per unit, in accordance with County standards; and that adequate public services are available to serve the increased density requested by this project, as conditioned.

7. The Mitigated Negative Declaration identifies and evaluates all of the potential environmental effects of the Proposed Project, and therefore, constitutes an adequate, accurate, objective, and complete Mitigated Negative Declaration for the purposes of approving the Proposed Project, and represents a good faith effort to achieve completeness and full environmental disclosure for the Proposed Project. Based on the information contained in the Initial Study included in the project file, it has been determined that there will be no significant environmental effect resulting from this project, because Mitigation Measures are incorporated into the project as Conditions of Approval and include a Mitigation Monitoring Program. The Planning Commission certifies that it has reviewed and considered the Mitigated Negative Declaration, together with all comments received during the public review process, prior to reaching its decision on the Proposed Project. Based on the record of these proceedings, the Planning
Commission finds that there is no substantial evidence before it that the Proposed Project, as mitigated, will have a significant effect on the environment and that the Mitigated Negative Declaration reflects the independent judgment and analysis of the Planning Commission.

**Be It Further Resolved** that the Board of Supervisors adopts the Mitigated Negative Declaration. The Board of Supervisors certifies that the Mitigated Negative Declaration has been completed, reviewed, and considered, together with comments received during the public review process, in compliance with CEQA and State and County CEQA guidelines, and finds that the Mitigated Negative Declaration reflects the independent judgment of the Board.

**Be It Further Resolved** that the Board of Supervisors approves the requested Zone Change to allow for a 79-Unit Affordable Housing Project, subject to the Conditions of Approval in Exhibit "A", attached hereto.

**Be It Further Resolved** that the Board of Supervisors designates the Clerk of the Board as the custodian of the documents and other material which constitute the record of proceedings upon which the decision herein is based. These documents may be found at the office of the Clerk of the Board, 575 Administration Drive, Room 100-A, Santa Rosa, California 95403.

**Supervisors:**


Ayes: 5      Noes: 0      Absent: 0    Abstain: 0

So Ordered.
Mitigated Negative Declaration

Sonoma County Permit and Resource Management Department
2550 Ventura Avenue, Santa Rosa, CA 95403
(707) 565-1900   FAX (707) 565-1103

Publication Date: February 15, 2011
Adoption Date: March 10, 2011
State Clearinghouse: N/A

This statement and attachments constitute the Mitigated Negative Declaration as proposed for or adopted by the Sonoma County decision-making body for the project described below.

File No.: PLP09-0101
Planner: Jane Riley

Project Name: Crossroads
Project Location: 1980 and 2010 Burbank Ave., Santa Rosa

Project Description: This project involves a Rezone on 4.85 acres to allow for a 79-unit affordable rental apartment community that will include 20 structures. This project site has a General Plan Land Use designation of UR 5 (Urban Residential, 5 dwelling units per acre), but a zoning designation of RR 4 AC (Rural Residential, 4 acres per unit), VOH (Valley Oak Habitat).

A Rezone is sought to allow for a Zoning designation of RR 4 AC, VOH, AH (Affordable Housing) Combining District Zoning. AH Combining District Zoning allows for 100% affordable rental housing projects with as-built densities between 20 and 24 units per acre. After the land for public improvements (Liana Drive and Valley Oak Drive) is dedicated to the City, the remaining buildable site will be 3.82 acres. The proposed density for the project will be 20.66 units per acres as-built.

Environmental Finding: The proposed project could not have a significant effect on the environment, and the adoption of a Mitigated Negative Declaration is appropriate.

Based upon the information contained in the Initial Study included in the project file, it has been determined that there will be no significant environmental effect resulting from this project, provided that mitigation measures are incorporated into the project. The Mitigated Negative Declaration has been completed in compliance with CEQA State and County guidelines and the information contained therein has been reviewed and considered.

There will not be a potential impact on biotic habitat of concern to Fish and Game.

Initial Study: Attached

Other Attachments: As listed in Initial Study

Decision-making Body: Sonoma County Board of Supervisors

Lead Agency: Sonoma County Permit and Resource Management Department
ENVIRONMENTAL CHECKLIST FORM

FILE #: PLP09-0101
PROJECT: Crossroads

PLANNER: Jane Riley
DATE: February 15, 2011

LEAD AGENCY: Sonoma County Permit & Resource Management Department

PROJECT LOCATION: 1980 & 2010 Burbank Ave, Santa Rosa

APPLICANT NAME: Burbank Housing Development Corp.

APPLICANT ADDRESS: 790 Sonoma Ave.
Santa Rosa, CA 95404

GENERAL PLAN DESIGNATION: UR 5 (Urban Residential, 5 dwelling units per acre)

ZONING: RR 4 AC (Rural Residential, 4 acres per unit)

DESCRIPTION OF PROJECT:

This project involves a rezone to add an AH (Affordable Housing) Combining District designation to a 4.85 acre site in order to accommodate a 79-unit affordable rental apartment community. Major Design Review is also requested. The project site currently has a General Plan Land Use designation of UR 5 (Urban Residential, 5 dwelling units per acre), and a Zoning designation of RR 4 AC (Rural Residential, 4 acres per unit), VOH (Valley Oak Habitat).

A rezone is sought to change the existing Zoning designation of RR 4 AC, VOH, to an updated Zoning Designation of RR 4 AC, VOH, AH. By adding the AH Combining District Zoning to the existing Zoning designation, 100% affordable rental housing projects with as-built densities of between 20 and 24 units per acre will be allowable. After the land area required for public improvements (Liana Drive and Valley Oak Drive) is dedicated to the City, the remaining site area will be 3.82 acres. As such, the proposed as-built density for the project will be 20.66 units per acre.

One, two and three-bedroom housing units will be provided in twenty, two-storied structures with 141 parking spaces, three centrally located community courtyards of varied design, a “tot lot” play area, and a 2,980 square foot community building. All of the units will be provided at affordable rents. The affordability levels to be provided exceed the requirements of the Sonoma County Zoning Code Article 89, and meet the requirements of the Zoning Code’s -AH Combining District. The requirements of State Government Code Section 65915 (Density Bonus Law) are also exceeded by this proposal, and thus the project is entitled to at least three waivers or incentives under State Law.

SURROUNDING LAND USES AND SETTING:

The project site is 4.85 acres in size and is situated east of Stony Point Road and north of Hearn Avenue in the Southwest quadrant of Santa Rosa, just outside of city limits. The project site encompasses two parcels: 1980 Burbank Avenue (APN 125-421-019) at 2.50 acres and 2010 Burbank Avenue (APN 125-421-018) at 2.35 acres. Combined, these two parcels form a single, vacant lot which is generally flat with slight natural drainage to the southwest. While the land has most recently been used as grazing pasture, a number of valley oaks are generally clumped in the south central portion of the site and along the eastern property line. Although the site is currently not served by public water and sewer, it is located within the Burbank Avenue Agreement Area for sewer connections, and public water would be provided by the City of Santa Rosa. The surrounding neighborhood is single-family residences to the north, south, and across Burbank Avenue to the west. A 1950s subdivision of single-family homes is located to the east and southeast. A Head Start preschool and school district corporation yard are immediately adjacent to the northeast property line. Shepherd Elementary school is one block further east. A new primary school,
Roseland Creek Elementary School, is under construction about a 1/4-mile to the north at 1683 Burbank Avenue. The project site is well served by public transportation and is near public schools, shopping, and services.

The project site is within the boundaries of the South Santa Rosa Area Plan, which is no longer in effect except for its design guidelines.

The City of Santa Rosa will ultimately provide services to this site, and consistency with the City of Santa Rosa General Plan is required for the project to receive the required utilities from the City. The City’s General Plan Land Use designation for this site is Rural Residential, 1-5 units per acre, which allows a greater density subject to the granting of a density bonus under Government Code 65915. While it appears that the proposed project will be consistent with the City’s General Plan as designed, and provided the density increases and waivers available under state law, that determination will ultimately be made by the City.

Other Public Agencies whose approval is required (e.g. permits, financing approval, or participation agreement): City of Santa Rosa- Utility Certificate

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “Potentially Significant Impact” as indicated by the checklist on the following pages.

- [X] Aesthetics
- [X] Biological Resources
- [X] Greenhouse Gas Emissions
- [X] Land Use and Planning
- [X] Transportation / Traffic
- [X] Agriculture and Forest Resources
- [X] Cultural Resources
- [X] Hazards and Hazardous Materials
- [X] Mineral Resources
- [X] Utilities / Service Systems
- [X] Air Quality
- [X] Geology / Soil
- [X] Hydrology / Water Quality
- [X] Noise
- [X] Mandatory Findings of Significance

The environmental documents which constitute the Initial Study and provide the basis and reasons for this determination are attached or referenced herein, and are hereby made a part of this document.

DETERMINATION: On the basis of this initial evaluation:

- [X] The proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

- [X] Although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

- [X] The proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

- [X] The proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed by in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

- [X] Although the proposed project could have a significant effect on the environment, all potentially significant effects were previously analyzed in an earlier EIR or Negative Declaration pursuant to
applicable standards and potential impacts have been avoided or mitigated pursuant to that earlier EIR or Negative Declaration, including revisions or mitigation measures that are imposed upon the proposed project. There are no changes in the project, no new information related to potential impacts, and no changes in circumstances that would require further analysis pursuant to Section 15162 of CEQA Guidelines, therefore no further environmental review is required.

The checklist below is taken from Appendix G of the State CEQA Guidelines. For each item, one of four responses is given:

**No Impact:** The project would not have the impact described. The project may have a beneficial effect, but there is no potential for the project to create or add increment to the impact described.

**Less Than Significant Impact:** The project would have the impact described, but the impact would not be significant. Mitigation is not required, although the project applicant may choose to modify the project to avoid the impacts.

**Potentially Significant Unless Mitigated:** The project would have the impact described, and the impact could be significant. One or more mitigation measures have been identified that will reduce the impact to a less than significant level.

**Potentially Significant Impact:** The project would have the impact described, and the impact could be significant. The impact cannot be reduced less than significant by incorporating mitigation measures. An environmental impact report must be prepared for this project.

**Incorporated Source Documents**

In preparation of the Initial Study checklist, the following documents were referenced/developed, and are hereby incorporated as part of the Initial Study. All documents are available in the project file or for reference at the Permit and Resource Management Department.

- [X] Project Application and Description
- [X] Initial Data Sheet
- [X] County Planning Department’s Sources and Criteria Manual
- [X] Sonoma County General Plan and Associated EIR
- [X] Specific or Area Plan: South Santa Rosa Area Plan
- [X] Sonoma County Zoning Ordinance
- [X] Sonoma County Rare Plant Site Identification Study
- [X] Project Referrals from Responsible Agencies
- [X] State and Local Environmental Quality Acts (CEQA)
- [X] Bay Area Air Quality Management District CEQA Air Quality Guidelines (June 2010)
- [X] Full record of previous hearings on project in File
- [X] Correspondence received on project
- [X] Other technical reports: The checklist includes a discussion of the impacts and mitigation measures that have been identified. Sources used in this Initial Study are listed below:

1) Special-Status Plant Survey, 2000 Burbank Ave. (Stromberg: 1997)

2) Second Year Special-Status Plant Survey, 2000 Burbank Ave. (Stromberg: 2002)


4) Environmental Site Assessment, Phase 1 Investigation. 1900 and 2030 Burbank Ave. (Harris and Lee: 2002)

5) Traffic Impact Study for Crossroads Apartments in the County of Sonoma. (Whitlock and Weinberger: January 31, 2011)
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7) Crossroads Apartments Arborist Report and Tree Inventory. (Becky Duckles: 2010)


9) Cultural Resources Study #25355. (Loyd and Beard: 2002)

EVALUATION OF ENVIRONMENTAL IMPACTS:

1. AESTHETICS Would the project:

   a) Have a substantial adverse effect on a scenic vista?  

   Comment:

   1.a. - Less than Significant Impact - The proposed project is not located in a Scenic Resource Combining District and will not adversely effect any designated scenic vista. The proposed project is not located upon any high-visibility ridge lines or hillsides, and can be characterized as having low to moderate visual site sensitivity according to the Sonoma County Visual Assessment Guidelines.

   No Mitigation Required.

   b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

   Comment:

   1.b. - Less than Significant Impact - There are no significant scenic or historic resources on the project site, and the site is not located within view of a state scenic highway. Removal of existing Valley Oak trees on the project site would be mitigated through imposition of standard conditions of approval which implement Sonoma County’s Tree Protection Ordinance as well as Mitigation Measures 4.e.(1) and 4.e.(2) in this initial study (below). The project site does not contain any historic buildings (See item 5.a. in this initial study).

   No Mitigation Required.

   c) Substantially degrade the existing visual character or quality of the site and its surroundings?

   Comment:

   1.c. - Less than Significant with Mitigation Incorporation - The proposed project site has an urban land use designation, no open space zoning or land use designation, is not on a hillside or ridge line, and is adjacent to other urbanized lands. The surrounding area is characterized by established commercial and residential developments as well as public facilities. It is not expected that the proposed development will degrade the visual quality of this site because the site and surrounding areas are residential in nature and are designated for urban development by the Sonoma County General Plan and the South Santa
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Rosa Area Plan. Design Review Committee review and approval will be required to ensure that the project will be as visually compatible with the surrounding area as is practicable.

**Mitigation Measure 1.c:** Final Design Review Committee review and approval shall be required prior to issuance of any Building or Grading Permit.

**Mitigation Monitoring:** The Permit and Resource Management Department shall not issue the Building Permit until Final Design Review approval has been granted. The Permit and Resource Management Department shall not sign off final occupancy on the Building Permit until a site inspection of the property has been conducted that indicates all final design review requirements have been installed according to the approved plans and conditions.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? 

   
   
   

   X

   

   

   Comment:

1.d. - Less than Significant with Mitigation Incorporation - The proposed building designs and materials do not include glass facades or utilize excessively reflective roofing materials which could create a glare. No external lighting details were provided with the application, however, building code will require exterior lighting at all exit doors. In addition, new street lighting is proposed for safety and security. The addition of exterior lighting for 79 new units as well as street lighting on the extension of Liana Drive and Valley Oak Drive would create new sources of ambient night lighting. Because the project is within an urban service area, some ambient night lighting is consistent with the land use patterns of the area. However, to ensure that the project does not result in significant new sources of night lighting, mitigation will be necessary to ensure that ambient night lighting is minimized.

**Mitigation Measure 1.d:** Street lighting is required to be fully shielded and directed downward. No off-site trespass of light onto adjoining properties or into the night sky shall be permitted. Prior to building permit issuance, the applicant shall submit lighting details for the review and approval of Project Review staff. Conduit, pull boxes, street light foundations and standards shall be installed based on the approved plan, prior to Final Building Inspection or occupancy of the buildings. Prior to final occupancy on any building or initiation of use, exterior lighting shall be installed in accordance with the approved plans.

**Mitigation Monitoring:** The Permit and Resource Management Department shall not sign off the building permit for occupancy until a site inspection of the property has been conducted that indicates all required improvements, including lighting and street lighting improvements, have been installed according to the approved plans and public works standards.

2. AGRICULTURE AND FOREST RESOURCES

| Potentially Significant Impact | Less than Significant with Mitigation Incorporation | Less than Significant Impact | No Impact |

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range
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Assessment Project and the Forest Legacy
Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

   [X]

Comment:

2.a. - No Impact - The project site is not located on Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. The Farmland Map designates the site as Urban Lands. The areas surrounding the project site are already characterized by urban land uses and lack significant agricultural operations.

No Mitigation Required.

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

   [X]

Comment:

2.b. - No Impact - The project site is zoned RR (Rural Residential) and is not in a Williamson Act contract.

No Mitigation Required.

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

   [X]

Comment:

2.c. - No Impact - The proposed project site is not currently zoned for forest land, timberland, or timberland zoned for Timberland Production, nor would the proposed project rezone any lands zoned as such.

No Mitigation Required.

d) Result in the loss of forest land or conversion of forest land to non-forest use?

   [X]

Comment:

2.d. - No Impact - The proposed project site is not in an area of forest land.

No Mitigation Required.

e) Involve other changes in the existing
environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?  

Comment:

2.e. - No Impact - The project site is not currently designated as farmland or forest land and is surrounded by established residential land uses. The proposed project will not involve any changes to the existing environment which could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use.

No Mitigation Required.

3. AIR QUALITY

| Potentially Significant Impact | Less than Significant with Mitigation Incorporation | Less than Significant Impact | No Impact |

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

a) Conflict with or obstruct implementation of the applicable air quality plan?  

Comment:

3.a. - Less than Significant Impact - The project site is within the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). The District does not meet federal or state air quality standards relating to ozone precursors and particulate matter. The District has adopted an Ozone Attainment Plan and a Clean Air Plan describing the steps that will be taken to bring the district's air quality into compliance with Federal and State CAA's (Clean Air Acts). The BAAQMD has established project-level screening criteria to predetermine when in-depth air-quality analysis is inappropriate because the anticipated impact of a project is less than significant. The air-pollutant screening-criteria for a low-rise apartment building is 451 dwelling units for operation-related emissions and 240 dwelling units for construction-related emissions (BAAQMD CEQA Air Quality Guidelines June 2010). The proposed project of 79 units does not exceed the BAAQMD screening criteria for air-pollutants and no further analysis is required. The project will not conflict with the District's plans to reduce air-pollutant emissions from new uses.

No Mitigation Required.

b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?  

Comment:

3.b. - Less than Significant Impact - The Sonoma County General Plan Open Space and Resource Conservation Element addresses pollutants from mobile sources (e.g. transportation sources). Because the proposed development is anticipated to result in 602 daily new vehicle trips (Traffic Impact Study. Whitlock and Weinberger. 2010), the following goal and policy would be relevant to, but would not conflict with, the proposed project:
Goal OSRC-16: Preserve and maintain good air quality and provide for an air quality standard that will protect human health and preclude crop, plant, and property damage in accordance with requirements of the Federal and State CAA’s (Clean Air Acts).

The Federal and State CAA’s referred to in GOAL OSRC-16 (above) establish standards for criteria pollutants, namely: ozone precursors, carbon monoxide, nitrogen dioxide, sulphur dioxide, and particulate matter (PM$_{10}$ and PM$_{2.5}$). To assess the likelihood that Federal or State standards for any criteria pollutants would be violated by the proposed project, or that the proposed project would further contribute to the Bay Area Air Quality Management District’s existing non-attainment status, potential emissions from both stationary and mobile sources associated with the proposed project are considered below.

The proposed development will not emit significant amounts of criteria pollutants from stationary sources. The project will not add any new equipment or processes that would produce significant emissions or require permits from the air district and no residential fireplaces are proposed.

The proposed development will also not emit significant amounts of criteria pollutants from mobile sources. Mobile sources include vehicle traffic. Anticipated vehicle traffic will emit carbon monoxide, nitrogen oxides, particulates, and Volatile Organic Compounds. Vehicles do not emit ozone directly, however, nitrogen oxides and hydrocarbons present in vehicle exhaust gases do constitute ozone precursors. Detailed air quality analysis for carbon monoxide is generally not recommended unless a project would generate 10,000 or more vehicle trips a day. The traffic impact study associated with this project indicated that the project would contribute approximately 602 new daily vehicle trips (Whitlock and Weinberger: 2010). Further analysis of the air-quality impact of mobile sources associated with this project will not be required.

The Bay Area Air Quality Management District has jurisdiction over the project site and provides a nexus between the project level assessment of air quality impacts in Sonoma County and compliance with Federal and State air quality regulations. The proposed project will not conflict with the BAAQMD’s attainment plans, and thus will not conflict with the Federal and State CAA’s. See item 3.a. in this initial study (above) for a more detailed discussion of the BAAQMD’s Federal and State non-attainment status and project level screening criteria.

No Mitigation Required.

c) Result in a cumulatively considerable net increase of any criteria pollutants for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

   [ ]

Comment:

3.c. - Less than Significant Impact - See Comments 3.a. and 3.b. in this initial study (above) for a discussion of ozone emissions and the Bay Area Air Quality Management District’s non-attainment status. The project will not have a significant impact on ozone precursors emissions (See item 3.b. in this initial study). The project will not have a significant long-term effect on PM$_{10}$ because all disturbed surfaces will be paved or landscaped, and dust generation will not be significant during the operation of the project. However, potentially significant short-term emissions of dust (which would include PM$_{10}$) during construction are anticipated. These emissions could be significant at the project level, and would also contribute to a cumulative impact. The impact will be reduced to less than significant by applying dust control techniques as described in Mitigation Measure 3.d. in this initial study (below). No further mitigation will be required.

No Mitigation Required.
d) Expose sensitive receptors to substantial pollutant concentrations?  

Comment:

3.d. - Less than Significant with Mitigation Incorporation - In accordance with the BAAQMD CEQA Guidelines, sensitive receptors are defined as facilities where sensitive receptor groups (i.e., children, the elderly, the acutely ill, and the chronically ill) are likely to be located. Such facilities include schools, playgrounds, child care centers, retirement homes, convalescent homes, hospitals, and medical clinics. There will be no significant, long-term change in particulate emissions associated with this project. However, during the period of construction there could be significant dust emissions that could potentially affect nearby residents and users of Willow Creek Preschool, Sheppard School and Roseland Elementary School District. These dust emissions would be reduced to less than significant levels by the mitigation measures described below.

Mitigation Measure 3.d.: The following dust control measures will be included in the project:

A. Water or other dust palliative will be applied to unpaved portions of the construction site, unpaved roads, parking areas, staging areas, and stockpiles of soil daily as needed to control dust.

B. Trucks hauling soil, sand and other loose materials over public roads will cover the loads, or will keep the loads at least two feet below the level of the sides of the container, or will wet the load sufficiently to prevent dust emissions.

C. Paved roads will be swept as needed to remove any visible soil that has been carried onto them from the project site.

Mitigation Monitoring: Building/grading permits for ground disturbing activities shall not be approved for issuance by Project Review staff until the above notes are printed on the building, grading and improvement plans. The applicant shall be responsible for notifying construction contractors about the requirement for dust control measures to be implemented during construction. If dust complaints are received, PRMD staff shall conduct an on-site investigation. If it is determined by PRMD staff that the complaints are warranted, the permit holder shall implement additional dust control measures as determined by PRMD or PRMD may issue a stop work order. (Ongoing during construction)

e) Create objectionable odors affecting a substantial number of people?  

Comment:

3.e. - No Impact - There are no known sources associated with the project that would create objectionable odors that would affect a substantial number of people.

No Mitigation Required.

4. BIOLOGICAL RESOURCES Would the project:

Potentially Significant Impact Less than Significant with Mitigation Incorporation Less than Significant Impact No Impact

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?
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Comment:

4.a. - Less than Significant with Mitigation - The project site lies within the Santa Rosa Plain, a recognized and adopted conservation area. The Santa Rosa Plain Conservation Strategy (SRPCS) was published on December 1, 2005. The Strategy provides the biological framework for conservation of the California Tiger Salamander (CTS) and four rare plant species found in conjunction with wetland habitat on the Santa Rosa Plain. It identifies conservation areas and mitigation requirements for development projects that will impact the habitat of protected species, including the CTS. If adequate seasonal wetlands are found to be present on a project site, then the Programmatic Biological Opinion (PBO) between the U.S. Fish and Wildlife Service (Service) and the Army Corps of Engineers (Corps) would also apply.

Endangered Species: Plants
If suitable seasonal wetlands are found to be present on a project site in the Santa Rosa Plain, then federal-listed rare plant species may also be present. Species with potential to occur in this area include Sebastopol meadowfoam (Limnanthes vinculans, Federal and State Endangered; California Native Plant Society (CNPS) list 1B), Sonoma sunshine (Blechnosperma bakeri, Federal and State Endangered; CNPS List 1B), and to a lesser extent, Burke's goldfields (Lasthenia burkel, Federal and State Endangered; CNPS List 1B).

Special-Status Plant Surveys prepared by Stromberg and Valerius indicate that none of the listed species were found on the project site in 1997, 2002, or 2005. However, according to the PBO, compensatory mitigation must be provided for losses of suitable wetland habitat, even if plant surveys are negative. Compensation is required for rare plant habitat in addition to that required for the loss of wetlands alone. While the 2-year survey for listed plants was negative and the only seasonal wetlands present on the project site were found to be small (1,059 square feet) and of low quality, they are nonetheless considered "suitable" habitat and the project will be required to mitigate for the loss of that habitat at a 1.5:1 ratio.

Endangered Species: Wildlife
Under the SRPCS and the PBO, the project area is considered to supply potential habitat for the California tiger salamander (CTS, Ambystoma californiense, Federal Endangered; State Listed as Threatened). The whole project site is within 1.3 miles of a known CTS occurrence; the front portion of the site appears to be within 2,200 feet of a known occurrence, as mapped by the PBO. There are no known CTS occurrences mapped on the project site, but there are numerous documented occurrences within two miles. Therefore, it is likely that CTS could occur on the project site, and appropriate compensatory mitigation would need to be provided for the loss of habitat. Because the entire property will be developed, mitigation will be required for the entire property.

Tree Protection
The property is within the Valley Oak Habitat Combining District, and development is subject to the County Tree Ordinance. Removal of native trees requires compensatory mitigation as specified in the Ordinance. See discussion and mitigation under 4.e., below.

Mitigation Measure 4.a.1.

Because the project would impact wetland subject to the authority of the U.S. Corps of Engineers (Corps) pursuant to Section 404 of the Clean Water Act, the project applicant is required to consult with the USFWS and issue its findings in a Biological Opinion (BO) for the project. Following the provisions of Section 2080.1 of the California Fish and Game Code, the California Department of Fish and Game (CDFG) will review the incidental take statement in the BO and determine if it is consistent with the requirements of the California Endangered Species Act (CESA). If CDFG determines that the federal authorization is not consistent with the CESA, the project proponent shall apply for a State Incidental Take Permit under section 2081(b) of the CDFG Code.

Mitigation Monitoring: The Project Review Division shall withhold issuance of the Grading Permit until verification is received indicating that the above mitigation measure has been completed.
Mitigation Measure 4.a.2.

Mitigation for impacts to CTS breeding and upland habitat shall be consistent with the CTS mitigation identified in the Santa Rosa Plain Conservation Strategy (2005) and the Programmatic Biological Opinion (USFWS, 2007). The appropriate mitigation ratio shall be negotiated with the USFWS and CDFG, and shall be no less than 1:1. Under the Santa Rosa Plain Conservation Strategy (2005), the agencies concluded that compliance with the interim mitigation guidelines is sufficient to mitigate significant effects to listed species.

Mitigation Monitoring: The Project Review Division shall withhold issuance of the Grading Permit until verification is received indicating that the above mitigation measure has been completed.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? ___ ___ ___ X ___

Comment:

4.b. Less than Significant - The proposed project site is not within any riparian habitat area, or immediately adjacent to any natural waterway, modified natural waterway, or constructed channel and the project does not propose a new outfall into such features. There would be no removal of riparian habitat, grassland or forest land as a result of this project.

The Storm Water Mitigation Plan prepared by Carlenzozi and Associates outlines drainage improvements that will increase soil filtration and decrease runoff flow rates from current levels in order to minimize downstream erosion and protect stream habitat. These improvements have been incorporated into the project.

No Mitigation Required

c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? ___ ___ X ___ ___

Comment:

4.c. Less than Significant with Mitigation - The Special-Status Plant Surveys prepared by Stromberg and Valerius indicate that only low-quality seasonal wetlands exist on a small portion (1,059 square feet) of the project site. While the plant survey for listed wetland species was negative, the wetland area is considered "suitable habitat" and mitigation at a 1:1 ratio will be required (see 4.a., above).

Mitigation Measure 4.c.1. Off-site mitigation of the 0.041 acres of delineated wetland shall be accomplished through the purchase of wetland mitigation bank credits from an approved wetland mitigation bank. All required State and Federal permits for fill of the existing wetland shall be obtained.

Mitigation Monitoring: The Project Review Division shall withhold issuance of the Grading Permit until verification is received indicating that the above mitigation measure has been completed.

Mitigation Measure 4.c.2. Any permits required by the Regional Water Quality Control Board shall be obtained and all Board recommendations complied with.
Mitigation Monitoring: Grading and building permit issuance shall be withheld by the Project Review Division until a copy of RWQCB permit applications or a waiver from the Regional Water Quality Control Board is provided to the project planner.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Comment:

4.d. - No Impact - No wildlife species will be impacted as a result of this project because there are no streams in proximity, the site has a history of urban land uses, and there is no significant wildlife or plant habitat on the site.

No Mitigation Required.

e) Conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance?

Comment:

4.e. - Less than Significant with Mitigation - The proposed development is within a Valley Oak Habitat (VOH) combining district. Removal of any Valley Oaks within a Valley Oak Habitat district is subject to mitigation measures. Additional tree planting indicated in the improvement plans for screening, landscaping and streetscape treatment will further mitigate the loss of trees on the project site.

Mitigation Measure 4.e. (1): All grading and development on site shall be done in compliance with the County Tree Protection Ordinance. The project's grading and landscape plans shall detail all tree protection implementation measures. The following mitigation measures will be required,

1. Plastic or chain link tree protection fencing should be installed at the driplines of trees to be preserved, or the outer edge of the dripline of groups of trees to be preserved.

2. Trees to be preserved shall be clearly marked prior to demolition or site grading.

3. A pre-construction meeting with the tree service to perform pruning and the project arborist will be required to specify the extent and specifics of pruning. Pruning should be the minimum necessary for hazard reduction or necessary access, structural training and crown restoration. It should be done by trained, qualified tree workers according to ISA Pruning Guidelines.

4. If grading or trenching for utilities or drainage must occur within the driplines of protected trees, the project arborist should be contacted to provide monitoring during the work. Roots 2" and larger shall be preserved where they occur at a depth that lines may be installed under them. If any roots larger than 1" are encountered that cannot be preserved, they should be cut cleanly across the face of the root with a sharp saw.

5. Wood chip mulch generated from pruning should be spread under protected trees to serve as a permanent top dressing and mulch. It should be augmented to provide a 4" layer of mulch within the driplines of all trees to be preserved.

6. No parking, storage of materials, or other construction activity is to occur within driplines of trees to be preserved.
Mitigation Monitoring: The Permit and Resource Management Department shall not sign off the grading or building permit for issuance until the project grading and landscape construction documents clearly show all applicable tree protection measures required by the Sonoma County Tree Protection Ordinance. The Permit and Resource Management Department shall not sign off the grading or building permit for occupancy until a site inspection has been conducted, and the applicant has provided written verification from the project's landscape architect or contractor certifying that the tree protection measures were complied with.

Mitigation Measure 4.e. (2): Required tree replacement shall be as set forth in the Tree Removal Plan prepared by Carlenzoli and Associates, as modified by Design Review Committee approvals. Tree value assessment and replacement shall be consistent with the Arboreal Value Chart in the Sonoma County Tree Protection and Replacement Ordinance (Ord. #4014). Any combination of 15 gal and 24" box trees may be used at the ratio of 1 arboreal value point = 2 - 15 gal trees and 2 points = 1 - 24" box tree.

Mitigation Monitoring: PRMD staff shall withhold sign-off of the grading permit until the Improvement Plans reflect this measure. Project occupancy shall be withheld until a site inspection determines that the appropriate planting has been installed.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state Habitat conservation plan?

Comment:

4.f. - Less than Significant Impact - The project site is in a Valley Oak Habitat Zoning Overlay District and lies within the Santa Rosa Plain. See items 4.a. and 4.e. in this Initial study (above) for more information.

No Mitigation Required.

5. CULTURAL RESOURCES Would the project:

a) Cause a substantial adverse change in the significance of a historical resource as defined in § 15064.5?

Comment:

5.a. - No Impact - There are no documented historical resources on the site. The California Historical Resources Information System (CHRIS) cites Study #25355 (Loyd and Beard: 2002) which covered 100% of the proposed project area and identified no cultural resources. The California Historical Resources Information System does not recommend further study for cultural resources at the proposed project site.

No Mitigation Required.

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?

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5.b. - Less than Significant with Mitigation Incorporation - The California Historical Resources Information System recommends that because the proposed project area has a low possibility of containing unrecorded archaeological sites, no further study for archaeological resources is recommended, however such resources could be uncovered during construction, in which case the following mitigation measure would become relevant.

Mitigation Measure 5.b.: The following notes shall be included on building or grading plans for ground disturbing activities:

"If archaeological materials such as pottery, arrowheads or midden are found, all work shall cease and PRMD staff shall be notified so that the find can be evaluated by a qualified archaeologist (i.e., an archaeologist registered with the Society of Professional Archaeologists). Artifacts associated with prehistoric sites include humanly modified stone, shell, bone or other cultural materials such as charcoal, ash and burned rock indicative of food procurement or processing activities. Prehistoric domestic features include hearths, firepits, or house floor depressions whereas typical mortuary features are represented by human skeletal remains. Historic artifacts potentially include all by-products of human land use greater than 50 years of age including trash pits older than fifty years of age. The developer shall designate a Project Manager with authority to implement the mitigation prior to issuance of a building/grading permit. When contacted, a member of PRMD Project Review staff and the archaeologist shall visit the site to determine the extent of the resources and to develop proper procedures required for the discovery. No work shall commence until a protection plan is completed and implemented subject to the review and approval of the archaeologist and Project Review staff. Mitigation may include avoidance, removal, preservation and/or recording in accordance with accepted professional archaeological practice.

"If human remains are encountered, all work must stop in the immediate vicinity of the discovered remains and PRMD staff, County Coroner and a qualified archaeologist must be notified immediately so that an evaluation can be performed. If the remains are deemed to be Native American and prehistoric, the Native American Heritage Commission must be contacted by the Coroner so that a "Most Likely Descendant" can be designated."

Mitigation Monitoring: Building/grading permits for ground disturbing activities shall not be approved for issuance by Project Review staff unless the above notes are printed on the building, grading and improvement plans. The applicant shall be responsible for notifying construction contractors about the requirement to cease construction if archaeological materials are found during ground disturbing activities. The project planner shall work with the applicant in reviewing and revising construction plans if archaeological materials are found. (Ongoing during construction)

c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? __ __ __ X

Comment:

5.c - No Impact - There are no unique geologic features on the project site. The geology of the site and the nature of the project make it extremely unlikely that paleontological resources would be destroyed.

No Mitigation Required.

d) Disturb any human remains, including those interred outside of formal cemeteries? __ __ X __

Comment:

5.d. - Less than Significant Impact - No burial sites are known in the vicinity of the project and most of the project site has already been disturbed by previous land uses. In the event that human remains are unearthed during construction, state law requires that the County Coroner be contacted in accordance
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with Section 7050.5 of the State Health and Safety Code to investigate the nature and circumstances of the discovery. At the time of discovery, work in the immediate vicinity would cease until the Coroner permitted work to proceed. If the remains were determined to be Native American inremment, the Coroner will follow the procedure outlined in CEQA Guidelines Section 15065.5(e).

No Mitigation Required.

6. GEOLOGY AND SOILS Would the project: 

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporation</th>
<th>Less than Significant Impact</th>
</tr>
</thead>
</table>

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Comment:

6.a.i. - Less than Significant Impact - The site is not located within an Alquist Priolo Earthquake Fault zone, and there are no other known active or potentially active faults on the property. The project site is not in a Geologic Hazard Area Combing District, but is in an area identified as having a high or moderate potential for ground liquefaction.

No Mitigation Required.

ii) Strong seismic ground shaking?

Comment:

6.a.ii. - Less Than Significant with Mitigation - All of Sonoma County is subject to seismic shaking that would result from earthquakes along the San Andreas Fault Line, Healdsburg-Rodgers Creek, and other faults. Predicting seismic events is not possible, nor is providing mitigation that can entirely reduce the potential for injury and damage that can occur during a seismic event. However, using accepted geotechnical evaluation techniques and appropriate engineering practices, potential injury and damage can be diminished, thereby exposing fewer people and less property to the effects of a major damaging earthquake. The design and construction of dwellings are subject to load and strength standards of the California Building Code (CBC), which take seismic shaking into account. Project conditions of approval require that building permits be obtained for all construction and that the project meet all standard seismic and soil test/compaction requirements. The proposed project would therefore not expose people to significant risk of injury from seismic shaking. The following Mitigation Measures will ensure that potential impacts are reduced to less than significant levels.

Mitigation Measure 6.a. ii): All earthwork, grading, trenching, backfilling and compaction operations shall be conducted in accordance with the County Subdivision Ordinance (Chapter 25, Sonoma County Code) and erosion control provisions of the Drainage and Storm Water Management Ordinance (Chapter 11, Sonoma County Code and Building Ordinance (Chapter 7, Sonoma County Code). All construction activities shall meet the California Building Code regulations for seismic safety (i.e., reinforcing perimeter and/or load bearing walls, bracing parapets, etc.). Construction plans shall be subject to review and approval by PRMD prior to the issuance of a building permit. All work shall be subject to inspection by
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PRMD and must conform to all applicable code requirements and approved improvement plans prior to the issuance of a certificate of occupancy.

Mitigation Monitoring: Building/grading permits for ground disturbing activities shall not be approved for issuance by Project Review staff until the above notes are printed on applicable building, grading and improvement plans. The applicant shall be responsible for notifying construction contractors about code requirements.

   iii) Seismic-related ground failure, including liquefaction?

Comment:

6.a.iii. - Less than Significant Impact - The project site is located within an area with a high or moderate potential for ground liquefaction as shown on the Sonoma County Relative Hazard from Seismic Shaking map. Strong ground shaking during an earthquake can result in ground failure and/or settlement such as that associated with soil liquefaction, and can also cause deformation of slopes, particularly fill slopes. Therefore the property has the potential to experience liquefaction and settlement during a seismic event. All structures will be required to meet building permit requirements, including seismic safety standards and soil test/compaction requirements. Based on standard permitting requirements, the project will have no significant risk of loss, injury or death from seismic ground failure or liquefaction. Also see item 6.a.i. in this initial study (above).

No Mitigation Required.

   iv) Landslides?

Comment:

6.a.iv. - No Impact - The project site is level and is not located in a landslide prone area as detailed in Geology for Planning in Sonoma County Special Report 120; Slope Stability.

No Mitigation Required.

b) Result in substantial soil erosion or the loss of topsoil?

Comment:

6.b. - Less than Significant with Mitigation - Construction of the project will alter the existing drainage pattern on the site. No waterways will be altered. Mitigation Measures for erosion control and standard conditions for management of the storm water runoff will bring the level of impact to a less than significant level. Any new facilities will be designed to the required capacity. (See also Items 9.c. and 17.c. in this initial study (below)).

Mitigation Measure 6.b: Storm water runoff shall be routed through permanent storm water Best Management Practices prior to reaching downstream storm water facilities. Areas of exposed soil shall be planted with appropriate vegetation to minimize runoff from conveying sediment to the storm drain system.

Mitigation Monitoring: PRMD staff shall withhold sign-off of the grading permit until the Improvement Plans reflect this measure. Project occupancy shall be withheld until a site inspection determines that the appropriate planting has been installed.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading,
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subsidence, liquefaction or collapse?    ______    ______    X    ______

Comment:

6.c. - Less than Significant Impact - The project site is subject to seismic shaking and potential liquefaction as described in item 6.a.ii. in this initial study (above). No further mitigation is required.

No Mitigation Required.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?    ______    ______    X    ______

Comment:

6.d. - Less than Significant Impact - Table 18-1-B of the California Building Code is an index of the relative expansive characteristics of soil as determined through laboratory testing. For the proposed project, soils at the site were not tested for their expansive characteristics. No substantial risks to life or property are expected if the project is located on expansive soil. Soil testing may be required for building or grading permits.

No Mitigation Required.

e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?    ______    ______    ______    X

Comment:

6.e. - No Impact - The proposed project will be served by public sewer in accordance with the Burbank Avenue Area Agreement for Sewer connections. No septic tanks or alternative waste disposal systems are proposed for this project.

No Mitigation Required.

7. **GREENHOUSE GAS EMISSION** Would the project:

<table>
<thead>
<tr>
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<th>Less than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
</table>

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?    ______    X    ______

Comment:

7.a. - Less Than Significant Impact with Mitigation Incorporation - Greenhouse gases (GHG's) trap heat in the atmosphere. Increases in GHG's due to human activity are associated with Global Climate Change, that is, change in the average weather on earth, as measured by wind patterns, storms, precipitation and temperature. The primary GHGs are carbon dioxide, methane, nitrous oxide, sulfur hexafluoride, perfluorocarbons, hydrofluorocarbons, and water vapor. Considered the most important
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GHG, carbon dioxide is the reference gas for climate change and emissions of GHGs in general are often reported as carbon dioxide equivalents (CO₂-e).

The Bay Area Air Quality Management District has established thresholds of significance for the principle air pollutants and GHG's. These were adopted on June 2, 2010 and include thresholds for CO₂ equivalent, Rox, Nog, etc. The threshold of significance at the project level is either Compliance with a Qualified Greenhouse Gas Reduction Strategy or 1,100 metric tons of CO₂ equivalent per year or 4.6 metric tons of CO₂ equivalent per service population per year. An analysis of the proposed project's impact on GHG emissions has not been performed to assess whether the proposed project may exceed these thresholds. The BAAQMD has established a screening criteria to assess whether a project will likely require a further analysis. Projects below the applicable screening criteria shown in Table 3-1 in the BAAQMD CEQA Air Quality Guidelines would not exceed the 1,100 MT of CO2e/yr GHG threshold of significance. The screening criteria for a low-rise apartment development is 78 dwelling units. The proposed project includes 79 dwelling units, exceeding the screening criteria. However, the BAAQMD CEQA Air Quality Guidelines also allow that, if a project, including stationary sources, is located in a community with an adopted qualified GHG Reduction Strategy, the project may be considered less than significant if it is consistent with the GHG Reduction Strategy. A project must demonstrate its consistency by identifying and implementing all applicable and feasible measures and policies from the GHG Reduction Strategy into the project. The GHG Reduction Strategy applicable to this project is the Sonoma County Climate Protection Campaign.

The Sonoma County Board of Supervisors recently adopted the Sonoma County Climate Protection Campaign which sets a target to reduce GHG emissions to 25% below 1990 levels by the year 2015. The County has completed the first two of five steps in the campaign. The next step is to complete the Community Climate Action Plan (the blueprint to help Sonoma County achieve this emissions target) and then implement the actions in the Plan and develop an on-going monitoring process to ensure that the County meets its reduction target.

For purposes of the Mitigated Negative Declaration, the project would be considered to have a significant impact on GHG only if it would conflict with the state goal of reducing GHG emissions in California to 1990 levels by 2020, as set forth by the California Global Warming Solutions Act of 2006. There is currently no indication that the project would conflict with the Act's time line.

On November 2, 2010, the Board of Supervisors approved all state mandated model codes including the new California Green Building Standards Code (CalGreen). Sonoma County's existing green building ordinance and energy efficiency ordinance were modified to accommodate the new CalGreen code, and to replace the existing green point rated systems, Build-It-Green and LEED for both new residential and non-residential construction respectively. The ordinances became effective January 1, 2011. Compliance with these ordinances are mentioned in state regulations. The following mitigation measures reflect the provisions of this ordinance.

**Mitigation Measure 7.a. (1):** All new buildings shall be constructed in conformance with CalGreen at the Tier 1 level of compliance. These standards apply to both new residential and non-residential construction excepting remodels and additions, and result in buildings that are more energy efficient and reduce GHG emissions.

**Mitigation Monitoring:** CalGreen + Tier 1 compliance became mandatory in Sonoma County when it was adopted and approved by the Board of Supervisors and California Energy Commission; the ordinance effective date was January 1, 2011 Building permits will not be approved without compliance with this ordinance.

**Mitigation Measure 7.a. (2):** Prior to building permit issuance, a Water Conservation Plan shall be submitted for all landscaping, subject to PRMD review and approval. The Water Conservation Plan shall comply with all provisions of the Water Efficient Landscape Ordinance (WELO). Compliance with WELO meets the requirements under CalGreen for Water Efficiency and Conservation of outdoor water use.
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Mitigation Monitoring: Verification from a qualified irrigation specialist that landscaping complies with the Water Efficient Landscape Ordinance (WELO) shall be provided prior to Building Permit issuance. The measures in the Plan shall be implemented and verified by PRMD staff prior to Certificate of Occupancy.

b) Conflict with any applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? ___ ___ x ___

Comment:

7.b. - Less than Significant Impact - See item 7.a. of this initial study (above) for a discussion of applicable state and regional plans for reducing greenhouse gas emissions. In addition, the Sonoma County Community Climate Action Plan identifies land use patterns which conflict with plans to reduce emissions of greenhouse gases. Identified land use patterns are those likely to result in greenhouse gas emissions by actuating an increase in vehicle miles traveled. The cause of the increase in vehicle miles traveled is spatial distancing of residential areas from schools, shopping areas, and places of work necessitating longer and more frequent vehicle trips. The proposed development is located within an already developed area, is within walking distance to several schools, and is less than two miles from commercial shopping areas on Sebastopol Rd. and Santa Rosa Avenue. The proposed development is not anticipated to result in distant new (green field) development and thus does not conflict with the Sonoma County Community Climate Action Plan recommendations concerning land use patterns. No further mitigation is required.

No Mitigation Required.

8. HAZARDS AND HAZARDOUS MATERIALS

Would the project:::

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
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<th>No Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?</td>
<td>___ ___ ___ x ___</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comment:

8.a. - No Impact - The project does not involve any change in the use of hazardous materials. The proposed project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials.

No Mitigation Required.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? ___ ___ x ___

Comment:

8.b. - Less Than Significant Impact - The Environmental Site Assessment Investigation prepared by Harris and Lee (2002) identified several sites surrounding the project site which may present ground water threats to the subject site. The potential risk involves the potential use of groundwater as a
domestic water supply source." However, the proposed project will not utilize wells or other nearby groundwater supplies for domestic use. The proposed project will be served by the City of Santa Rosa which will provide a municipal water supply to the proposed development.

No Mitigation Required.

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Comment:

8.c. - No Impact - No hazardous materials are associated with this project. The proposed project is located adjacent to Willow Creek Preschool and near Sheppard School and Roseland Elementary School District, but will not emit any hazardous materials or substances.

No Mitigation Required.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Comment:

8.c. - No Impact - The Environmental Site Assessment prepared by Harris and Lee (2002) for the project site included an environmental records review of government records of hazardous materials sites with relation to the project site. No records of hazardous materials on the project site were found.

No Mitigation Required.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

Comment:

8.e. - No Impact - The project site is not located within 2 miles of a public airport.

No Mitigation Required.

f) For a project located within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

Comment:

8.f. - No Impact - The project site is not located within the vicinity of a private airstrip.
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No Mitigation Required.


g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? ______ ______ X ______

Comment:

8.g. - Less than Significant Impact - The proposed project will be subject to Santa Rosa Fire Department General Conditions. The project could alter emergency response times by altering or obstructing vehicle circulation patterns. The traffic study prepared by Whitlock and Weinberg (Whitlock and Weinberg : 2010) indicates that the primary intersections which will be impacted by this project are expected to continue to operate acceptably with the addition of project-related vehicle trips except the intersections at Hearn Ave./West Ave. and Hearn Ave./Burbank Ave. These intersections are currently operating unacceptably, however Mitigation Measures 16.a. and 16.d. (1) in this initial study (below) will bring this project’s potential impact on emergency response times to a less than significant level. No further mitigation will be required. Also see Item 16.e. in this initial study (below) for a discussion of emergency access.

No Mitigation Required.

h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands? ______ ______ X ______

Comment:

8.h. - Less than Significant Impact - The project is not in an area with high or very high potential for large wildland fires. All project construction will be required to conform to the Sonoma County Fire Safe Standards related to fire sprinklers, emergency vehicle access and emergency water supply.

No Mitigation Required.

9. HYDROLOGY AND WATER QUALITY

Would the project:

<table>
<thead>
<tr>
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<th>Less than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Violate any water quality standards or waste discharge requirements?</td>
<td>______</td>
<td>______</td>
<td>X ______</td>
</tr>
</tbody>
</table>

Comment:

9.a. - Less than Significant with Mitigation - Because the total proposed area of construction exceeds one acre, the project is subject to the National Pollutant Discharge Elimination System (NPDES) requirements as set by the Regional Water Quality Control Board (RWQCB).

Mitigation Measure 9.a.: If the cumulative land disturbance of the project is equal to or greater than one (1) acre, then the project is subject to National Pollutant Discharge Elimination System (NPDES) requirements and must obtain coverage under the State Water Resource Control Board’s General Construction Permit (General Permit). Documentation of coverage under the General Permit must be submitted to the Grading & Storm Water Section of the Permit and Resource Management Department prior to issuance of any grading permit for the proposed project.
Mitigation Monitoring: The Permit and Resource Management Department shall not issue the building permit until documentation of coverage under the general Permit has been received by the Grading and Storm Water Section of PRMD.

b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted? ___ ___ ___ X

Comment:

9.b. - No Impact - Public water service would be provided to the proposed project by The City of Santa Rosa in place of wells or other local groundwater sources of domestic water. According to the Sonoma County General Plan, the project site is located in a major groundwater basin and a groundwater recharge area. The project will cover an area of approximately three acres with impervious surfaces which will not produce a significant effect on groundwater recharge or groundwater supplies due to the drainage design which utilizes vegetated swales to capture, and hold runoff for slow recharge. (Carlenzoli and Associates: 2009) See item 17.c. in this initial study (below) for a discussion of the storm water Best Management Practices to be implemented in this project and their relation to groundwater recharge.

No Mitigation Required.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site? ___ X ___ ___

Comment:

9.c Less than Significant with Mitigation - Construction of the project will alter the existing drainage pattern on the site. Best Management Practices for erosion control and management of the storm water runoff will be incorporated into the design and will bring the level of impact to a less than significant level. Any new facilities will be designed and built to the required capacity. See item 17.c. in this initial study (below) for a discussion of the storm water Best Management Practices to be implemented in this project and their relation to the off site effects of project related drainage and runoff.

Mitigation Measure 9.c (1): A drainage report for the proposed project shall be prepared by a civil engineer, registered in the State of California, be submitted with the grading and/or building permit application, and be subject to review and approval by the Grading & Storm Water Section of the PRMD. The drainage report shall include, at a minimum, a project narrative, on- and off-site hydrology maps, hydrologic calculations, hydraulic calculations, pre- and post-development analysis for all existing and proposed drainage facilities. The drainage report shall abide by and contain all applicable items in the Drainage Report Required Contents (DRN-006) handout.

Mitigation Monitoring: The Permit and Resource Management Department shall not issue a grading or building permit until evidence is submitted and approved by the Grading and Storm Water Section of PRMD that the improvements have been designed by a civil engineer in accordance with the Drainage Report Required Contents (DRN-006) handout as detailed in Mitigation Measure 9.c. (1) (above).
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d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site? ___ X ___ ___ ___

Comment:

9.d. - Less than Significant Impact with Mitigation Incorporation - See item 9.c. in this initial study (above). The project will not alter the course of a stream of river. Increasing the amount of impervious surface area resulting from the development of bare land generally increases the rate at which storm water runs across a site. Methods to decrease the run-off time or improve the drainage system can be used to offset the increase, and to avoid or lessen the impacts of the proposed development. See Mitigation Measure 9.c. (1) in this initial study (above) as well as item 17.c. in this initial study (below).

Mitigation Measure 9.d. : Drainage improvements shall be designed by a civil engineer, registered in the State of California, and in accordance with the Sonoma County Water Agency Flood Control Design Criteria. Drainage improvements shall be shown on the grading/site plans and be submitted to the Grading & Storm Water Section of the PRMD for review and approval. Drainage improvements shall maintain off-site natural drainage patterns, limit post-development storm water levels and pollutant discharges in compliance with PRMD’s best management practices guide, and abide by the standards and provisions of Chapters 11 & 11A of the Sonoma County Code and all other relevant laws and regulations. Drainage improvements shall not adversely affect adjacent properties or drainage systems.

Mitigation Monitoring: The Permit and Resource Management Department shall not issue a grading or building permit until evidence is submitted and approved by the Drainage Review Section of PRMD that the improvements have been designed by a civil engineer in accordance with the Sonoma County Water Agency Flood Control Design Criteria for approval and are shown on the Improvement Drawings. The developer’s engineer shall include a Site Grading Plan and an Erosion Control Plan as part of the required Improvement Drawings.

e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? ___ X ___ ___ ___

Comment:

9.e. - Less than Significant Impact With Mitigation Incorporation - Development of the parcel would be permitted only after County review of engineered plans to ensure adequate management of any stormwater runoff. See items 9.c. and 9.d. in this initial study (above) and 17.c. (below).

Mitigation Measure 9.e. (1): The proposed project is subject to Standard Urban Storm Water Mitigation Plan (SUSMP) guidelines. Measures to mitigate the project impacts to the quality of post-construction storm water discharges from the site shall be incorporated into the drainage design of the project. A final SUSMP shall be submitted with the grading and/or building permit application, and be subject to review and approval by the Grading & Storm Water Section of the PRMD prior to the issuance of any grading or building permits.

Mitigation Monitoring: SUSMP features must be installed per approved plans and specifications, and working properly prior to finalizing the grading permit and associated building permits.

Mitigation Measure 9.e. (2): Polluted runoff from waste receptacles and dumpster areas shall not be allowed to drain directly to the storm drain system, waterway(s) or adjacent lands.
Mitigation Monitoring: PRMD staff shall withhold sign-off of the building permit until the Improvement Plans reflect this measure. Project occupancy shall be withheld until a site inspection determines that the appropriate drainage for waste receptacles and dumpster area has been installed.

Mitigation Measure 9.e. (3): Appropriate Best Management Practices shall be implemented to effectively minimize and prevent polluted storm water discharges.

Mitigation Monitoring: PRMD staff shall withhold sign-off of the building permit until the Improvement Plans reflect this measure.

Mitigation Measure 9.e. (4): Storm drain easements shall be shown and noted on the grading/site plans.

Mitigation Monitoring: PRMD staff shall withhold sign-off of the building permit until the grading/site plans reflect this measure.

f) Otherwise substantially degrade water quality?       __   X    ___    ___

Comment:

9.f. - Less than Significant with Mitigation - The project will not result in substantial impacts to water quality with the following Mitigation Measures in place. The project will be required to obtain all necessary permits from concerned agencies and conform with the Sonoma County Water Efficient Landscape Ordinance (WELO) as a condition to site development. See also item 9.c. in this initial study (above).

Mitigation Measure 9.f. (1): Because some storm water runoff from the site will enter into the public storm drain which ultimately drains to Roseland Creek, storm drain inlets and catch basins shall be appropriately stenciled with the words "No Dumping. Drains to Creek".

Mitigation Monitoring: The project planner shall withhold project occupancy until this measure has been determined complete through a site inspection.

Mitigation Measure 9.f. (2): The project is subject to the applicable provisions of the Sonoma County Water Efficient Landscape Ordinance (WELO) adopted on December 15, 2009. A landscape plan check shall be required prior to commencing any construction on a landscape project subject to the provisions of the Sonoma County WELO. All project landscaping must be in conformance with the requirements of the Sonoma County Code of Ordinances, Chapter 7D3-7.

Mitigation Monitoring: Final Design Review Committee approval of the Landscaping Plans shall not be granted until the above criteria have been met. No landscape project applicant shall be deemed to have complied with the provisions of the Sonoma County WELO until a final inspection of the work has been completed by the director. The project planner shall withhold certificates of occupancy until the preceding conditions have been met.

Mitigation Measure 9.f (3): As part of the grading plans, the applicant shall include an erosion prevention/sediment control plan which clearly shows best management practices to be implemented, limits of disturbed areas, vegetated areas to be preserved, pertinent details, notes, and specifications to prevent damages and minimize adverse impacts to the environment. Tracking of soil or construction debris into the public right-of-way shall be prohibited. Runoff containing concrete waste or by-products shall not be allowed to drain to the storm drain system, waterway(s), or adjacent lands. The erosion prevention/sediment control plan shall abide by and contain all applicable items in the Grading Permit Required Application Contents (GRD-004) handout.

Mitigation Monitoring: The Permit and Resource Management Department shall not issue a grading or building permit until evidence is submitted and approved by PRMD that the erosion/sediment control plan has been included in the project grading plans in accordance with the Grading Permit Application
Contents (GRD-004) handout. The applicant shall be responsible for notifying construction contractors about the requirements for soil, construction-debris and concrete waste-water control measures to be implemented during construction. If complaints are received concerning the tracking of soil or other construction debris or release of concrete waste-water into the public right-of-way, PRMD staff shall conduct an on-site investigation. If it is determined by PRMD staff that complaints are warranted, the permit holder shall implement additional measures as determined by PRMD or PRMD may issue a stop work order. (Ongoing during construction)

g) Place housing within a 100-year hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?

Comment:

9.g. - Less than Significant with Mitigation Incorporation - The proposed project site is not in an F1 or F2 (Floodway or Floodplain) Combining District which would designate its position within a 100-year hazard area. The proposed project will however result in new residential development within Sonoma County's Flood Prone Urban Area. Construction and grading within Sonoma County's Flood Prone Urban Area is subject to mitigation.

Mitigation Measure 9.g.: The proposed project is located within the Flood Prone Urban Area (FPUA). No fill shall be placed within the FPUA, unless an engineering analysis demonstrates that no adverse impact to drainage within the FPUA will result from the fill placement and related improvements.

Mitigation Monitoring: PRMD staff shall withhold sign-off of the building permit until the Improvement Plans indicate that no fill shall be placed within the FPUA or evidence is submitted and approved by PRMD that an engineering analysis has demonstrated that no adverse impact to drainage within the FPUA will result from the fill placement and related improvements.

h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?

Comment:

9.h. - No Impact - The proposed project site is not located within a 100-year flood hazard area. (See item 9.g. in this initial study (above)).

No Mitigation Required.

i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?

Comment:

9.i.- No Impact - The proposed project site is not located near any levee or dam.

No Mitigation Required.

j) Inundation by seiche, tsunami, or mudflow?

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9.j. - No Impact - The project site is not subject to seiche, tsunami or mudflow.

No Mitigation Required.

10. LAND USE AND PLANNING Would the project:

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant with Mitigation Incorporation</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
</table>

a) Physically divide an established community?

Comment:

10.a. - Less than Significant with Mitigation Incorporation - The proposed project will not result in an operation-related physical division of an established community because the areas designated as land for public improvement (Liana Drive and Valley Oak Drive) will foster increased public access between development on Burbank Ave. and Dutton Ave. and result in increased connectivity between these neighborhoods in an east-west direction. North-South connectivity is a lesser priority or the proposed project site because far less development has occurred to the immediate north or south of the project site. The proposed project may however result in a temporary construction-related physical division of an established community. During construction, mitigation will be required to ensure that students at nearby schools and residents of the surrounding neighborhoods will retain a safe and pedestrian-friendly connection around or through the project site.

Mitigation Measure 10.a.: Existing pedestrian sidewalks and crosswalks shall not be obstructed during construction by temporary fences, soil, construction debris or any other dangerous obstruction.

Mitigation Monitoring: The applicant shall be responsible for notifying construction contractors about the required mitigation measures to be implemented during construction. If complaints are received, PRMD staff shall conduct an on-site investigation. If it is determined by PRMD staff that complaints are warranted, the permit holder shall implement additional measures as determined by PRMD or PRMD may issue a stop work order. (Ongoing during construction)

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

Comment:

10.b. - No Impact - The project is consistent with the Land Use Element of the Sonoma County General Plan, and with the Land Use Designation of the South Santa Rosa Specific Plan. While Rezoning to add the -AH District designation is required, a General Plan Amendment is not required and a Specific Plan Amendment is not required.

No Mitigation Required.

c) Conflict with any applicable habitat conservation plan or natural community conservation plan?

Comment:
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10.c. - **No Impact** - This project will not conflict with any applicable conservation plans. See item 4.e. in this initial study (above) for a discussion of the Valley Oaks on the project site and the applicable Valley Oak Habitat zoning overlay. No further mitigation is required beyond mitigation measures associated with item 4.e.

**No Mitigation Required.**

11. **MINERAL RESOURCES** Would the project:  

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant with Mitigation Incorporation</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
</table>

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?  

X

**Comment:**

11.a. - **No Impact** - The project is not located in a MR (Mineral Resource) zoning district. The Sonoma County General Plan indicates the project site is not located in a known mineral resource deposit area (Fig RC-2d). There are no known local or regional mineral resources in the project vicinity, therefore, the project would not result in a loss of its availability.

**No Mitigation Required.**

b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?  

X

**Comment:**

11.b. - **No Impact** - The project is not locate in a MR (Mineral Resource) zoning district. The Sonoma County General Plan indicates the project site is not located in a known mineral resource deposit area (fig. RC-2d). There are no known local or regional mineral resources in the project vicinity, therefore, the project would not result in a loss of mineral resource availability.

**No Mitigation Required.**

12. **NOISE** Would the project result in:  

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant with Mitigation Incorporation</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
</tr>
</thead>
</table>

a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?  

X

**Comment:**

12.a. - **Less than Significant Impact** - The proposed project will not generate noise levels in excess of the standards established in the General Plan. Residential uses are considered to be noise-sensitive rather than noise-generating. The nearby receptors are also residential uses. No negative impact is anticipated.

**No Mitigation Required.**
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b) Exposure of persons to or generation of excessive groundborne vibration or ground borne noise levels?  ___  ___  X  ___

Comment:

12.b. - Less than Significant Impact - The project would result in construction activities that may create ground borne vibration and noise, however, this noise is not considered to be significant as the duration is limited to the construction period. Standard Conditions of Approval limit construction activity to daytime hours.

No Mitigation Required.

c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?  ___  ___  X  ___

Comment:

12.c. - Less than Significant Impact - Permanent operation-related noise will not be substantial. See item 12.a. in this initial study (above).

No Mitigation Required.

d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?  ___  ___  X  ___

Comment:

12.d. - Less than Significant Impact - The project may result in a minor temporary increase in ambient noise levels during project construction. This would be noise normally associated with construction and is not anticipated to be excessive. Standard Conditions of Approval will limit construction activity to daytime hours.

No Mitigation Required.

e) For a project located within an airport land use plan or, where such plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?  ___  ___  ___  X

Comment:

12.e. - No Impact - The project is not located within an airport land use planning area nor within two miles of an airport.

No Mitigation Required.

f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?  ___  ___  ___  X

Comment:
12.f. **No Impact** - The project is not located near a private airport.

**No Mitigation Required.**

13. **POPULATION AND HOUSING** Would the project:

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporation</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>X</td>
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</tbody>
</table>

**Comment:**

13.a. **Less than Significant Impact** - The project will result in the construction of 79 rental apartment units. This increase in density is in conformance with the proposed zoning which is RR4 AC, -AH Combining District designation, 16-24 units per acre. The project is not expected to generate substantial population growth.

**No Mitigation Required.**

b) Displace substantial numbers of existing housing necessitating the construction of replacement housing elsewhere?

|                               |                                                            |                             | X         |

**Comment:**

13.b. **No Impact** - This proposed project will not displace any housing. In fact, it will create additional housing units on the property. See also item 13.c. in this initial study (below).

**No Mitigation Required.**

c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

|                               |                                                            |                             | X         |

**Comment:**

13.c. **No Impact** - This proposed project will not displace substantial numbers of people as there are no existing residential uses of the parcel.

**No Mitigation Required.**

14. **PUBLIC SERVICES**

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant Impact with Mitigation Incorporation</th>
<th>Less than Significant Impact</th>
<th>No Impact</th>
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</table>

a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the
construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

<table>
<thead>
<tr>
<th>Public Facility</th>
<th>Question</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire protection</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Police protection</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Schools</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Parks</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Other public facilities</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Comment:

14.a. - Less than Significant Impact - No new public facilities will be required as a result of this project.

No Mitigation Required.

15. RECREATION

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

<table>
<thead>
<tr>
<th>Impact Level</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potentially Significant Impact</td>
<td></td>
</tr>
<tr>
<td>Less than Significant Mitigation Incorporation</td>
<td></td>
</tr>
<tr>
<td>Less than Significant Impact</td>
<td>X</td>
</tr>
<tr>
<td>No Impact</td>
<td></td>
</tr>
</tbody>
</table>

Comment:

15.a. - Less than Significant Impact - Although the project provides on-site play area, it is expected that other nearby park facilities such as Southwest Community Park will be cumulatively impacted as well. The project will be conditioned to meet standard County requirements for payment of park impact fees applicable to all residential Building Permits.

No Mitigation Required.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

<table>
<thead>
<tr>
<th>Impact Level</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potentially Significant Impact</td>
<td></td>
</tr>
<tr>
<td>Less than Significant Mitigation Incorporation</td>
<td></td>
</tr>
<tr>
<td>Less than Significant Impact</td>
<td>X</td>
</tr>
<tr>
<td>No Impact</td>
<td></td>
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</tbody>
</table>

Comment:

15.b. - Less than Significant Impact - See item 15.a. in this initial study (above).

No Mitigation Required.
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16. TRANSPORTATION/TRAFFIC Would the project:

a) Cause an increase in traffic which is substantial
in relation to the existing traffic load and capacity
of the street system (i.e., result in a substantial
increase in either the number of vehicle trips, the
volume to capacity ratio on roads, or congestion
at intersections?

Comment:

16.a. - Less than Significant with Mitigation Incorporation - The traffic study prepared by Whitlock and
Weinberg (Whitlock and Weinberg : 2010) indicates that the primary intersections which will be impacted
by this project are expected to continue to operate acceptably with the addition of project-related vehicle
trips except the intersections at Hearn Ave./West Ave. and Hearn Ave./Burbank Ave. The addition of
project-related traffic is anticipated to contribute a less than significant amount of traffic at the intersection
of Hearn Ave./West Ave. and mitigation of this impact is considered unnecessary. The cumulative impact
of the added traffic at the intersection of Hearn Ave./Burbank Ave. will need to be mitigated by payment of
a Development Impact Fee to be used towards signalization of the intersection which would bring it to an
acceptable level of service.

Mitigation Measure 16.a: Note on Improvement Plans: "New construction on the parcels associated with
this approval is subject to payment of a development fee (Traffic Mitigation Fee) before issuance of any
building permits, as required by Section 26, Article 98 of the Sonoma County Code."

Mitigation Monitoring: PRMD shall not sign off on Improvements Plans until the above condition has
been met.

b) Exceed, either individually or cumulatively, a level
of service standard established by the county
congestion management agency for designated
roads or highways?

Comment:

16.b. - Less than Significant with Mitigation Incorporation - See mitigation at item 16.a. of this initial
study (above).

No Additional Mitigation Required.

c) Result in a change in air traffic patterns, including
either an increase in traffic levels or a change in
location that results in substantial safety risks?

Comment:

16.c. - No Impact - There will be no change in air traffic patterns that would result in substantial safety
risks.

No Mitigation Required.

d) Substantially increase hazards due to a design
feature (e.g., sharp curves or dangerous intersections)
or incompatible uses (e.g., farm equipment)?  

Comment:

16.d. - Less than Significant with Mitigation Incorporation - Currently, Liana Drive terminates west of Biwana Drive resulting in very little east-west through traffic meaning that drivers turning at this intersection are used to making the turn relatively unopposed. With the extension of Liana Drive, the volume of east-west traffic would increase creating more conflicting traffic for drivers making turning movements at the intersection of Liana Drive/Biwana Drive. To improve safety at this intersection it is recommended that the intersection be converted to an all-way stop control. (Whitlock and Weinberger: 2010). A Development Impact Fee will be assessed to complete this conversion.

Regarding vehicle access to the proposed project site, the traffic report prepared by Whitlock and Weinberger identifies the westerly driveway, the Valley Oak Drive connection, and the existing fence on the adjacent property to the east on Liana Drive as potential sites of dangerous visual obstruction for vehicles caused by landscaping and signage placement. (Whitlock and Weinberger: 2010) Design Review Committee review and approval will be required to ensure that the landscaping and signage will not result in a dangerous visual obstruction to vehicles.

Mitigation Measure 16.d. (1): Note on Improvement Plans: “New construction on the parcels associated with this approval is subject to payment of a development fee (Traffic Mitigation Fee) before issuance of any building permits, as required by Section 26, Article 98 of the Sonoma County Code.”

Mitigation Monitoring: PRMD shall not sign off on Improvements Plans until the above condition has been met.

Mitigation Measure 16.d. (2): Final Design Review Committee review and approval shall be required prior to issuance of any Building or Grading Permit.

Mitigation Monitoring: The Permit and Resource Management Department shall not issue the Building Permit until Final Design Review approval has been granted. The Permit and Resource Management Department shall not sign off final occupancy on the Building Permit until a site inspection of the property has been conducted that indicates all final design review requirements, including landscaping and signage requirements have been installed according to the approved plans and conditions.

e) Result in inadequate emergency access?  

Comment:

16.e. - Less than Significant with Mitigation Incorporation - The proposed project has adequate emergency access from Burbank Ave. and Liana Drive. The proposed project will be required to meet the requirements of the Sonoma County Fire Safe Standards and the Santa Rosa fire Department's General Conditions. See Item 8.g. in this initial study (above) for a discussion of the project's potential impacts on emergency vehicle access at the intersections of Burbank Ave./Hearn Ave. and West Ave./Hearn Ave., and the appropriate mitigation measures.

Mitigation Measure 16.e.: Project plans shall reflect conformance with Sonoma County Fire and Emergency Service Department's Fire Safe Standards and the Santa Rosa Fire Department's General Conditions applicable to this project.

Mitigation Monitoring: Sonoma County PRMD shall withhold building and grading permits until project plans reflect conformance with the Sonoma County Fire Safe Standards and Santa Rosa Fire Department's General Conditions applicable to this project.

f) Result in inadequate parking capacity?
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Comment:

16.f. - Less than Significant with Mitigation Incorporation - The Sonoma County Zoning Code requires 136 on-site parking spaces for an affordable housing project with a unit mix of 22 one-bedroom and 57 two- or three-bedroom units. The improvement designs propose 103 new on-site spaces, and 33 on-street spaces for a total of 136 spaces. Eight of the on-street spaces are along the new Valley Oak Drive, the dead end street interior to the development, while the remainder are along the new extension of Liana Drive, which will be a through street when connected at Burbank Avenue. Under Government Code Section 65915, this density bonus project must be granted a reduced parking requirement if requested by the project developer. The number of parking spaces required is in conformance with the reduced requirements available under 65915, but the location of the parking spaces on-street rather than on-site is not. An incentive has been requested by the developer to provide 33 of the required 136 parking spaces on-street rather than on-site.

Mitigation Measure 16.f.: The proposed project must meet parking requirements laid out in Sonoma County Zoning Code Chapter 26 Article 86 unless an incentive is granted under 65915:·o provide a portion of the required parking spaces on the Liana Drive extension, as shown in the site plan dated February 9, 2011.

Mitigation Monitoring: Sonoma County PRMD shall withhold building and grading permits until project plans reflect compliance with the above.

g) Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)? ________________ ________________

Comment:

16.g. - Less than Significant with Mitigation Incorporation - The proposed project does not conflict with alternative transportation plans or policies except for the absence of suitable bicycle parking areas in the project plans. The project site is located within 1500 ft. of several bus routes. Bus stops are present on West Ave. and on Hearn Ave. at Southwest Community Park. Burbank Ave. provides adequate bicycle access to both Hearn Ave. and Sebastopol Rd., both of which have class B bicycle lanes and connections to other suitable regional bicycle routes. The proposed project includes new sidewalks along the site frontage. Additionally, the project applicant is working with the School District and the Department of Transportation and Public Works to provide a continuous asphalt path extending from the project frontage north to the new school, and south to the existing improved pedestrian crosswalk at Hearn Avenue.

Mitigation Measure 16.g.1: The project requires bicycle parking be provided at a ratio of ten percent of the provided automobile parking, equally distributed throughout the development. Design Review plans shall indicate the locations and sizes of bicycle parking areas.

Mitigation Monitoring: The Permit and Resource Management Department shall not issue the Building Permit until Final Design Review approval has been granted. The Permit and Resource Management Department shall not sign off final occupancy on the Building Permit until a site inspection of the property has been conducted that indicates all final design review requirements, including bicycle parking areas, have been installed according to the approved plans and conditions.

Mitigation Measure 16.g.2: The project applicant shall coordinate with the School District and the Department of Transportation and Public Works and construct a sidewalk along the development's Burbank Avenue frontage to connect to the County's asphalt pathway which will extend north to the new school (Roseland Creek Elementary School) and south to the existing improved pedestrian crosswalk at Hearn Avenue.

Mitigation Monitoring: The Permit and Resource Management Department shall not sign off final project occupancy until these improvement have been made to the satisfaction of the director of Transportation and Public Works and the City of Santa Rosa.
### 17. UTILITIES AND SERVICE SYSTEMS

Would the project:

<table>
<thead>
<tr>
<th>Potentially Significant Impact</th>
<th>Less than Significant with Mitigation Incorporation</th>
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<th>No Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**Comment:**

**17.a. Less than Significant Impact** - The proposed project will be connected to public water and public sewer. No water quality standards or waste discharge requirements will be violated. The GP2020 EIR and the 2009 General Plan Housing Element reviewed the availability of public services for the Santa Rosa Urban Service Area. The Sonoma County Sanitation District provides sewer services to this area under the Burbank Ave. Area Agreement for Sewer Connections (Sonoma County Board of Supervisors Resolution #16226)

No Mitigation Required.

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

|   |   | X |   |

**Comment:**

**17.b. - No Impact** - The project will not contribute to the need for construction of new water or wastewater treatment facilities.

No Mitigation Required.

c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

|   |   | X |   |

**Comment:**

**17.c. Less than Significant Impact** - The project would require the construction of storm water drainage facilities for the new structures; however, no significant environmental effects are anticipated. The project employs Storm Water Best Management Practices (BMP's) to mitigate potential impacts.

"Vegetated swales are proposed as the storm water Best Management Practice to cleanse storm water. After obtaining natural filtration through the vegetated swales, storm water will be held beneath the swales in StormTech's bottomless subsurface storm water chamber to encourage groundwater recharge. In an effort to minimize the potential for long standing water in the subsurface chamber, a metering office will limit the discharge of excess storm water back into the public storm drain at a rate which will not exceed the predevelopment condition for storms having a 2-year recurrence interval." (Carlenzoli and Associates: 2009).

Because the project design limits the storm water runoff to predevelopment levels the potential impact on the environment will be less than significant.

No Mitigation Required.
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d) Have sufficient water supplies available to serve
the project from existing entitlements and resources,
or are new or expanded entitlements needed? ______ ______ X ______

Comment:

17.d. - Less Than Significant Impact - New water services will be necessary to provide domestic water
to the proposed project. The City of Santa Rosa will provide water services to the proposed project under
a waiver granted by the City of Santa Rosa of Santa Rosa City Council Policy 300-02 to allow for an
application for a utility certificate for sewer and water service to the project site which is outside of Santa
Rosa’s existing city limits. Standard conditions have been imposed on the project by the City as a part of
their granting of the Utility Certificate.

e) Result in a determination by the wastewater
treatment provider which serves or may serve
the project that it has adequate capacity to serve
the project’s projected demand in addition to the
provider’s existing commitments? ______ X ______ ______

Comment:

17.e. - Less than Significant Impact with Mitigation Incorporation - The project will receive
wastewater/sewer services from the City of Santa Rosa in accordance with the Burbank Area Agreement
adopted June 24, 1983. This agreement details the process whereby Sonoma County will build an
appropriate sewer system and the City of Santa Rosa will furnish ongoing sewer service and maintenance
thereafter. The City of Santa Rosa will provide sewer services to the proposed project under a waiver
granted by the City of Santa Rosa of Santa Rosa City Council Policy 300-02 to allow for a utility certificate
for service to the project site.

Mitigation Measure 17.e.(1): The project utility plan must be approved by the City Engineer. The project
utility plan shall be designed in compliance with the City of Santa Rosa’s development standards and
conditions set forth in the approved Utility Certificate from the City of Santa Rosa.

Mitigation Monitoring: The project shall not receive any sewer connection or services from the City of
Santa Rosa unless and until the conditions of Mitigation Measure 17.e. in this initial study (above) have
been complied with and fulfilled. The project planner will withhold final occupancy certificates until the
conditions of Mitigation Measure 17.e. in this initial study (above) have been complied with and fulfilled.

Mitigation Measure 17.e.(2): Prior to and separate from the start of Improvement Plan review, the
applicant shall have Improvement Plans for Sanitary Sewer design prepared by a licensed civil engineer,
registered in the State of California, and designed in accordance with Sonoma County Water Agency
Design and Construction Standards for Sanitation Facilities and/or City of Santa Rosa Standards, as
applicable. The applicant shall submit four (4) sets of Improvement Plans for sanitary sewer design,
(blueline or blackline, 24 inch by 36 inch in size), one (1) copy of the Conditions of Approval and Plan
Checking fees, to the Sanitation Section of PRMD for those sections within County review jurisdiction.
The sanitary sewer design shall include "plan and profile" diagrams of the proposed sewer, in addition to
all other requirements of the sewer design standards.

Mitigation Monitoring: Sanitary sewer Improvement plans shall be approved by the Engineering Division
of PRMD and/or the City of Santa Rosa, as applicable, prior to the issuance of any sanitary sewer
inspection permits. All sanitary sewer inspection permits shall be obtained from the Sanitation Section of
PRMD prior to the start of construction. Sign-offs on the Improvement and grading plans shall be
withheld until the above measure has been complied with.

f) Be served by a landfill with sufficient permitted
capacity to accommodate the project’s solid
waste disposal needs? ______ ______ ______ X ______
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Comment:

17.f - No Impact - Sonoma County has a solid waste management program in place that provides solid waste collection and disposal services for the entire County. The program can accommodate the permitted collection and disposal of the waste that will result from the proposed project.

No Mitigation Required.

g) Comply with federal, state, and local statutes and regulations related to solid waste?

Comment:

17.g - Less than Significant - The proposal is for residential use and will comply with all laws regarding the disposal of solid waste. Standard Conditions of Approval will be applied. The proposed dwelling units will have regular scheduled trash pick-up.

No Mitigation Required.

18. MANDATORY FINDINGS OF SIGNIFICANCE

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Comment:

18.a - Less than Significant Impact - This initial study determined that this project will not result in degrading the quality of the environment, substantially reduce the habitat of a fish or wildlife species, or threaten to eliminate a plant or animal community. Mitigation Measures have been incorporated into the proposed project that would reduce potential impacts to less than significant levels.

b) Does the project have impacts that are individually limited, but cumulatively considerable? (*Cumulatively considerable* means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Comment:

18.b - Less than Significant Impact - There are no physical improvements or construction plans that would create impacts which are individually limited but cumulatively significant. The project complies with "no net fill" provisions. Mitigation Measures have been incorporated into the proposed project that would reduce potential impacts to less than significant levels.

c) Does the project have environmental effects
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which will cause substantial adverse effects on human beings, either directly or indirectly? ___ ___ X ___ ___

Comment:

18.c - Less than Significant Impact - Mitigation Measures have been incorporated into the proposed project that would reduce potential impacts to less than significant levels. The project will not have a significant impact or substantial adverse effects on human beings after mitigation is implemented.
RESOLUTION NO. 27696

RESOLUTION OF THE COUNCIL OF THE CITY OF SANTA ROSA WAIVING SECTIONS OF CITY COUNCIL POLICY NO. 300-02, UTILITY CERTIFICATES FOR THE EXTENSION OF CITY WATER OR SEWER SERVICE TO UNINCORPORATED AREAS, TO ALLOW AN APPLICATION FOR A UTILITY CERTIFICATE FOR SEWER AND WATER SERVICE TO AN AFFORDABLE HOUSING PROJECT OUTSIDE SANTA ROSA’S EXISTING CITY LIMITS; GRANTING REVIEW AUTHORITY TO THE CITY COUNCIL; AND APPROVING THE UTILITY CERTIFICATE TO ALLOW SEWER AND WATER SERVICE FOR THE CROSSROADS AFFORDABLE HOUSING PROJECT TO BE LOCATED AT 1990 AND 2030 BURBANK AVENUE, SANTA ROSA (ASSESSOR’S PARCEL NUMBERS, 125-421-018 AND 125-421-019)

WHEREAS, an application requesting City sewer and water service for an affordable housing project located at 1990 and 2030 Burbank Avenue (also known as Assessor’s Parcel Numbers 125-421-018 and125-421-019), was filed on December 21, 2009; and

WHEREAS, Council Policy 300-02 establishes guidelines and procedures for review of Utility Certificate applications; and

WHEREAS, the above-referenced application includes a request that the Council waive certain requirements of City Council Policy 300-02 (Section 4 (a)) requiring prezoning of the project property prior to issuance of a utility certificate; and,

WHEREAS, the subject site has not been prezoned at this time due to ongoing discussions between the City of Santa Rosa and the County of Sonoma related to the development of a plan for services for the greater southwest area of Santa Rosa; and,

WHEREAS, the above-referenced application includes a request that the Council waive certain procedural requirements of City Council Policy 300-02 (Section A. Implementation, Subsection 2. (b) thereby granting review authority of the Utility Certificate to the City Council; and,

WHEREAS, said Council, after due consideration, investigation and study made by itself and on its behalf, and after due consideration of all evidence and reports offered at said meeting, finds and determines the following:

1. The issuance of a Utility Certificate is consistent with the Residential Medium Density General Plan Land Use designation which allow for multi-family housing projects, and the proposal will implement the General Plan by constructing medium density multi-family housing on the project properties.

2. The project complies with the provision of the California Environmental Quality Act in that the granting of a Utility Certificate qualifies for an exemption from the California Environmental Quality Act (CEQA) pursuant to section 15303(d) (utility extensions).
3. Extension of City sewer services to the subject properties would be beneficial to the public health, safety and welfare in that it would allow construction of an affordable housing project.

4. Special circumstances exist which warrant the waiver of City Council Policy 300-02 (Section 4 (a)) in that processing of the annexation ANX01-005 has been suspended pursuant to discussions between the City of Santa Rosa and the County of Sonoma related to an area-wide plan for services.

5. Special circumstances exist which warrant the waiver of City Council Policy 300-02 Section A. Implementation, Subsection 2. (b) in that this proposed Utility Certificate includes a waiver request to allow the Utility Certificate to proceed absent prezoning, which must be acted upon by the City Council; therefore, it is prudent that the Council simultaneously act on the Utility Certificate. Further, the proposed alternative street standard for Liana Drive warrants City Council consideration and action.

NOW, THEREFORE, BE IT RESOLVED that the Council of the City of Santa Rosa waives Council Policy No. 300-02 (Section 4 (a)) requiring prezoning prior to issuance of a Utility Certificate and City Council Policy 300-02 (Section A. Implementation, Subsection 2. (b) hereby granting review authority of the Utility Certificate to the City Council; and, approves a Utility Certificate to allow sewer and water service to the Crossroads Affordable Housing Project, located at 1990 and 2030 Burbank Avenue (also known as Assessor’s Parcel Numbers 125-421-018 and 125-421-019), based upon the plans stamped received June 14, 2010.

BE IT FURTHER RESOLVED that this entitlement would not be granted but for the applicability and validity of each and every one of the below conditions and that if any one or more of the below conditions is invalid, this entitlement would not have been granted without requirement other valid conditions for achieving the purposes and intents of such approval. The approval of this project is contingent upon compliance with all the conditions listed below:

1. Comply with all plans and policies and all applicable federal, state, and local codes.

2. Payment of any applicable Council-adopted fees prior to connection of facilities.

3. Cost of the facilities needed to provide the approved utility service shall be paid by the applicant. Installation of the service connection and all necessary related facilities shall be in accordance with City standards in effect at the time of installation. The applicant shall pay all City fees and charges applicable to the approved connection.

4. An Annexation Covenant prepared by the City must be executed by the property owner. The property owner must submit to Utilities Engineering a copy of the applicable grant deed and any additional information requested to show proof of title.

Reso. No. 27696
6. An Encroachment Permit is required for all work within the public right-of-way. Obtain permits from the Department of Public Works (543-3832). A County Encroachment Permit is also required.

7. Provide illuminated address numbers to meet City standards.

8. Any additions and/or expansions of the approved use (or a new use) shall require a new Utility Certificate.

9. The approval of this utility certificate is contingent upon the project documenting compliance with all City of Santa Rosa development and design criteria and receiving approval of the City of Santa Rosa Design Review Board.

12. Current Fire Department standards require two permanent points of public access for all projects with more than 50 dwelling units. As currently proposed, this project does not meet this requirement. Applicant may propose an Alternate Means or Method of Construction; one suggestion is to eliminate parking at the ends of Liana Drive (until Liana Drive becomes a through street), in order to provide sufficient width for Fire Department to conduct operations without obstructing residents’ egress from the site. Alternates must be approved by the Fire Marshal prior to project entitlement.

13. Two copies of a Phase 1 Environmental Site Assessment shall be included with submittal of the first Engineering plan check. One copy is to be submitted directly to the Fire Department and review fee paid; a copy of the receipt shall be submitted with the remaining copy to the Engineering Department. Grading, demolition or construction permits shall not be issued until the Fire Department has reviewed and approved the Phase 1 study.

14. Site address signage per current Fire Department Standards shall be established and maintained during and after any combustible construction or intensification of site use. See SRFD Information Bulletin 015 for details.

15. Traffic control devices and permanent fences or gates limiting vehicle access shall be approved by the Fire Department. Vehicle gates limiting access to five or more dwelling units shall be equipped with strobe-actuated electric operators on both the ingress and egress sides. Egress actuators may be replaced with a magnetic detection loop. Gates shall fail to an unlocked condition in the event of power outage.

16. Hydrant spacing for this multi-family residential project shall comply with current Fire Department standards: maximum 300 feet on center.

17. Fire Department access roads shall be provided to within 150 feet path-of-travel distance of all portions of first floor exterior walls of all structures and hazardous materials use or storage areas. Access roads shall be designed to current Fire Department standards: 20 feet wide minimum for structures two-stories or less in height, and 26 feet
wide minimum, with the nearest edge of pavement located no less than 15 feet and no more than 30 feet from one entire side of the proposed building, for structures more than 30 feet in height. Dead-end private access roads more than 150 feet in length shall have an apparatus turn-around per current Fire Department standards. Required Fire Department access roads shall be signed “No Parking – Fire Lane” per current Fire Department standards.

18. The Homeowners/Condominium Association or property owner shall be responsible for maintaining all fire protection appliances and roadways to current applicable standards.

19. A Fire Flow Analysis including proposed building areas, type of construction, and calculated available fire flow at the new public fire hydrants shall be provided to the Fire Department for review and approval concurrent with submittal of Public Improvement plans. Minimum required Fire Flow for this residential project is 1500 gpm with 20 psi residual in the main.

20. All structures shall be protected with automatic fire sprinkler systems; structures over three stories in height shall have standpipe systems as well. Residential structures four stories or less in height may be protected with an automatic fire sprinkler system designed and installed per NFPA 13R. Covered parking areas and non-residential structures shall be protected per NFPA 13. Santa Rosa City Code requires all structures over 3 stories to have standpipe and sprinkler systems installed and operable on each floor as construction progresses above the third floor.

21. Storage or use of any hazardous materials at the site (such as diesel fuel for the on-site generator or acid for batteries) will require a Hazardous Materials Business Plan to be submitted to the on-line reporting program at www.unidocs.org. The Fire Department will review for approval. Materials on site will require a Hazardous Materials Permit to be submitted to the Fire Department for review and approval and require payment of Hazardous Material Management Plan fee.

22. Access roads and water supplies for fire protection shall be installed and made serviceable prior to storage or construction of any combustible materials.

23. Submit full-sized civil plans prepared by a Registered Civil Engineer detailing the site improvements and Public Improvements prior to Design Review Board consideration of this project.

24. Document on civil plans how the existing alignment of Liana Drive will transition onto the east side of the project site. Liana Drive is required to be public to connect two existing public streets. Show the impact of the Liana Drive realignment to the existing Liana Drive east of the project, neighboring properties and specifically what off-site right of way will need to be acquired to realign the street.
25. Liana Drive must be public and must be constructed with curb, gutter, and a 5 foot sidewalk behind a 6 foot planter strip unless the proposed alternative street design is approved by the City Council. To match the existing Liana Drive to the east, Liana Drive would be constructed to Minor Street Standards. This would consist of a 10 foot wide travel lane and an 8 foot wide parking lane on the project side of centerline (north side), with a single 12 foot wide lane and temporary AC berm south of centerline, for a total curb to berm width of 30 feet.

27. Burbank Avenue shall be improved to special Scenic Road Standards. This standard is similar to the City of Santa Rosa Avenue Standard. The preliminary street design shall be a single 11 foot wide travel lane adjacent to centerline with a 6 foot wide bicycle lane. A 6 foot wide sidewalk shall be constructed behind an 8 foot wide planter strip. Standard curb and gutter will be constructed. The right of way line will be 8 feet in back of the face of curb.

28. Valley Oak Drive shall be improved to Neighborhood Street Standards, with a curb to curb width of 30 feet. City Street Standards require a 5 foot wide sidewalk behind a 5 foot wide planter strip on both sides of the street. The street must be fully improved all the way to the north property line with City Standard #236 Sidewalk Barricades and City Standard #211 Street Barricade at the north property line.

29. A single raised crosswalk across Valley Oak Drive is appropriate. The crossing location shall be as far away from the Liana Drive intersection as possible. The north pedestrian crossing shown on the plans seems appropriate.

30. SUSMP will apply to the project and SUSMP worksheets and a preliminary SUSMP Mitigation Plan must be submitted with the Civil Plans prior to Design Review Board consideration of the project.

31. The existing sewer main in Burbank Avenue is 10”. There is no existing water in Burbank Avenue. The water system shall be designed to meet fire flow requirements. Current Design and Construction Standards require multi-family uses to have minimum 12” water mains. Therefore, a minimum 12” water main shall be installed in Burbank Avenue to at least the southern property boundary of 2030 Burbank Avenue. Additional extensions or a loop may be required to meet fire flow requirements. Submit calculations to the Engineering and Development Services to demonstrate the adequacy of the proposed system.

32. This project shall not receive any utility services from the City of Santa Rosa unless and until all conditions and requirements have been complied with and fulfilled.

33. Demand fees and meter installation fees required by the City must be paid by the applicant prior to granting of utility connections.
34. Public improvement plans must show points of connection to existing water and sewer facilities. Plans shall also show any existing wells and whether they are to be abandoned and any septic systems to be abandoned.

35. Where bio swales are required, meter boxes, cleanouts, fire hydrants, etc. must be located without conflict with the swales. Locations of infrastructure will be reviewed during review of the Public Improvement Plans.

IN COUNCIL DULY PASSED this 3rd day of August, 2010.

AYES: (5) Mayor Gorin, Councilmembers Bender, Sawyer, Jacobi and Olivares

NOES: (1) Councilmember Vas Dupre

ABSENT: (1) Vice Mayor Wysocky

ABSTAIN: (0)

ATTEST: Sandi Bliss, Deputy City Clerk APPROVED: Susan Gorin, Mayor

APPROVED AS TO FORM:
Caroline Fowler, City Attorney
Appendix H – Geology


February 19, 2015

Burbank Housing Development Corporation
Attention: Larry Boughton
790 Sonoma Avenue
Santa Rosa, CA 95404
larryb@burbankhousing.org

Job No. 3501.01

Subject: Geotechnical Investigation Report Review and Update
Proposed Residential Development
Crossroads Residential Development
1980-2010 Burbank Avenue
Santa Rosa, California
APN: 125-421-018 & 019


Dear Larry:

In accordance with the request of your representative, Mr. Craig Meltzner of Meltzner and Associates, PJC and Associates, Inc. (PJC) is pleased to submit this letter presenting the results of our review of the original geotechnical investigation report and updated applicable sections of the report for the proposed residential development project located at 1980-2010 Burbank Avenue in Santa Rosa, California. PJC previously performed a geotechnical investigation for the project and presented the results in a written report, dated July 25, 2007.

The purpose of our review was to determine whether the original geotechnical investigation report is still applicable and valid for use in design and construction of the proposed project. Our scope of work included a site visit to review the existing site conditions and updating the report to current building code and geotechnical standards. The recommendations and criteria presented in this update are intended to supersede the recommendations of the above referenced report. All other aspects of that report are to remain applicable for design and construction of the project.

Based on the results of our work, we judge that the project is feasible from a geotechnical engineering standpoint, provided the geotechnical recommendations and criteria presented in the previous report and herein are incorporated into design and construction of the project.

1. PROJECT DESCRIPTION

Based on information provided to us, the proposed project has not significantly changed since the release of our original geotechnical investigation report referenced above.
2. SITE CONDITIONS

Our civil engineer visited the site on February 12, 2015. Our site visit revealed that the site has remained relatively unchanged since our July 25, 2007 geotechnical report. Additional geotechnical work is not warranted at this time.

3. CONCLUSIONS

Based on the results of our current work, we judge that the previous geotechnical report is valid for use in design and construction of the project. However, updated seismic design criteria need to be provided. These items are provided in the following sections of this report. All other findings and recommendations as presented in the previous report are valid.

The following presents additional criteria for design and construction of the project:

4. SEISMIC DESIGN

Based on criteria presented in the 2013 edition of the California Building Code (CBC) and ASCE (American Society of Civil Engineers) STANDARD ASCE/SEI 7-10, the following minimum criteria should be used in seismic design:

a. Site Class: \( D \)

b. Mapped Acceleration Parameters:
   \( S_S = 1.88 \)
   \( S_I = 0.75 \)

c. Site Adjusted Spectral Response Acceleration Parameters:
   \( S_{MS} = 1.88 \)
   \( S_{M1} = 1.13 \)

d. Design Spectral Acceleration Parameters:
   \( S_{DS} = 1.25 \)
   \( S_{DI} = 0.75 \)

5. ADDITIONAL SERVICES

Upon completion of the project plans, they should be reviewed by our firm to verify that the design is consistent with the recommendations of this report. During the course of this investigation, several assumptions were made regarding building loads and development concepts. Should our assumptions differ significantly from the final intent of the project designers, our office should be notified of the changes to assess any potential need for revised recommendations. Observation and testing services should be provided by PJC to verify that the intent of the plans and specifications is carried out during construction; these services should include observing foundation excavations, installation of the drainage facilities and observation and field density testing during grading and placement of engineered fill.

These services will be performed only if PJC is provided with sufficient notice to perform the work. PJC does not accept the responsibility for items that they are not notified to observe.
It has been a pleasure working with you on this project. Please call us if you have any questions regarding the results of this investigation, or if we can be of further assistance.

Sincerely,

[Signature]

PJC & ASSOCIATES, INC.

[Stamp]

Patrick J. Conway
Geotechnical Engineer
GE 2303, California

PJC/rd

cc: Meltzner and Associates (craig@craigmeltzner.com)
July 25, 2007

Burbank Housing Development Corporation  
Attention: Lisa Yoshida  
790 Sonoma Avenue  
Santa Rosa, CA 95404

Subject: Geotechnical Investigation  
Proposed Crossroads Residential Development  
1980-2010 Burbank Avenue  
Santa Rosa, California

Dear Lisa:

PJC & Associates, Inc. (PJC) is pleased to submit this report presenting the results of our geotechnical investigation for the proposed Crossroads residential development located at 1980-2010 Burbank Avenue in Santa Rosa, California. The approximate location of the site is shown on the Site Location Map, Plate 1. Our services were completed in accordance with our proposal for geotechnical engineering services, dated April 10, 2007. This report presents our engineering opinions and recommendations regarding the geotechnical aspects of the design and construction of the proposed project. Based on the results of this study, it is our opinion that the site can be developed from a geotechnical engineering standpoint provided the recommendations presented herein are incorporated in the design and carried out through construction.

We appreciate the opportunity to be of service. If you have any questions concerning the content of this report, please contact us.

Sincerely,

PJC & ASSOCIATES, INC.

Jonathan D. Morris  
Civil Engineer  
C 68396, California

Patrick J. Conway  
Geotechnical Engineer  
GE 2303, California

PJC/jm
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GEOTECHNICAL INVESTIGATION
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

1. PROJECT DESCRIPTION

Based on the preliminary site plan prepared by Kellogg + Associates, latest revision dated June 22, 2007, it is our understanding that the project will consist of improving the site and constructing a community center and 14 multiple-family residential structures consisting of approximately 96 residential units. We anticipate the residential structures will be two to three stories in height, wood and steel framed and have concrete slab-on-grade interior floors. It is our understanding the project will include asphalt paved parking areas and driveways, exterior concrete flatwork and vegetative landscape areas. It is our understanding the project will also include extending the public street named Liana Drive in a westward direction so that it intersects Burbank Avenue. The project will be serviced by underground municipal utilities.

Structural loading information was not available at the time of this investigation. For our analysis, we anticipate that structural foundation loads will be light with dead plus live continuous wall loads less than two kips per lineal foot (plf) and dead plus live isolated column loads less than 50 kips. If these assumed loads vary significantly from the actual loads, we should be consulted to review the actual loading conditions and, if necessary, revise the recommendations of this report.

At the time of this report, site grading and drainage plans or finished floor elevations were not available. Therefore, the amount of grading to be performed at the site is unknown at this time. The site is relatively level. Therefore, we anticipate site grading will consist of cuts and fills of approximately three feet and less to achieve the building pad and pavement grades and provide adequate gradients for site drainage. We do not anticipate the project including retaining walls.

2. PURPOSE AND SCOPE OF SERVICES

The purpose of this study is to provide geotechnical criteria for the design and construction of the proposed project. Specifically, the scope of our services included the following:

a. Drill nine exploratory boreholes to depths between 10 and 15.5 feet below the existing ground surface to observe the soil and groundwater conditions. One boring was drilled to a depth of 51.5 feet below the existing ground surface to evaluate liquefaction potential. Our civil engineer was on site during the drilling to log the materials encountered in the boreholes and to obtain representative samples for visual classification and laboratory testing.
SCALE: 1:24,000

b. Laboratory observation and testing of representative samples obtained during the course of our field investigation to evaluate the engineering properties of the subsurface soils at the site.

c. Review seismological and geologic literature on the site area, discuss site geology and seismicity, and evaluate potential geologic hazards and earthquake effects (i.e., liquefaction, ground rupture, settlement, expansive soils, lurching and lateral spreading, etc.).

d. Perform engineering analyses to develop geotechnical recommendations for site preparation and earthwork, foundation type(s) and design criteria, settlement, support of concrete slabs-on-grade, pavement design, site drainage, flexible pavement design and construction considerations.

e. Preparation of this report summarizing our work on this project.

3. SITE CONDITIONS

a. General. The site is located in the Roseland area of southwest Santa Rosa, approximately 0.3 miles north of Hearn Avenue. The site extends east from Burbank Avenue to Liana Drive. The site comprises 4.85 acres of land and is located in a residential area of single-family homes and apartments. The site was vacant and occupied by perennial grasses and scattered trees at the time of our investigation. The rectangular shaped property is bounded residential structures and pastures to the north, south and east and Burbank Avenue to the west.

b. Topography and Drainage. The site is located on nearly level ground in the Santa Rosa Plain. According to the United States Geological Survey (USGS) Santa Rosa, California, 7.5 Minute Quadrangle Map (topographic), the site is situated near an elevation of 120 feet above mean sea level (MSL). Regional drainage is provided by the Laguna de Santa Rosa and city maintained storm drainage systems. No creeks or seasonal drainage channels pass through the site. A drainage ditch was observed adjacent to Burbank Avenue. Site drainage generally consists of sheet flow and surface infiltration.

4. GEOLOGIC SETTING

The site is located in the Coast Ranges Geomorphic Province of California. This province is characterized by northwest trending topographic and geologic features, and includes many separate ranges, coalescing mountain masses and several major structural valleys. The province is bounded on the east by the Great Valley and on the west by the Pacific Ocean. It extends north into Oregon and south to the Transverse Ranges in Ventura County.
The structure of the northern Coast Ranges region is extremely complex due to continuous tectonic deformation imposed over a long period of time. The initial tectonic episode in the northern Coast Ranges was a result of plate convergence, which is believed to have begun during the late Jurassic period. This process involved eastward thrusting of oceanic crust beneath the continental crust (Klamath Mountains and Sierra Nevada) and the scraping off of materials that are now accreted to the continent (northern Coast Ranges). East-dipping thrust and reverse faults were believed to be the dominant structures formed.

Right lateral, strike slip deformation was superimposed on the earlier structures beginning mid-Cenozoic time, and has progressed northward to the vicinity of Cape Mendocino in Southern Humboldt County (Hart, Bryant and Smith, 1985). Thus, the principal structures south of Cape Mendocino are northwest trending, nearly vertical faults of the San Andreas system.

The site is located in the Santa Rosa Plain structural basin. According to Special Report 120, Plate 3B, the site is mapped as being underlain by Quaternary alluvial fan deposits consisting chiefly of fine sands and silts. This classification was confirmed by our subsurface exploration. However, we encountered more recent alluvial deposits consisting of silty and sandy clays at the surface of the site.

5. FAULTING

Geologic structures in the region are primarily controlled by northwest trending faults. No known active fault passes through the site. However, the site is located approximately 0.1 miles southwest of a possibly active fault, which exhibits features suggestive of geologically young surface rupture.

The site is not located in the Alquist-Priolo Earthquake Fault Studies Zone. Based on our research, the three closest known potentially active faults to the site are the Rodgers Creek, the Maacama (south) and the San Andreas Faults. The Rodgers Creek fault is located approximately two and one half miles to the northeast, the Maacama fault is located approximately 11 miles north, and the San Andreas Fault is located approximately 17 miles southwest of the site. Table 1 outlines the nearest known active faults and their associated maximum credible magnitudes.

<table>
<thead>
<tr>
<th>Fault Name</th>
<th>Distance from Site (Miles)</th>
<th>Maximum Earthquakes (Moment Magnitude)</th>
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<tbody>
<tr>
<td>Rodgers Creek</td>
<td>2.5</td>
<td>7.0</td>
</tr>
<tr>
<td>Maacama</td>
<td>11</td>
<td>6.9</td>
</tr>
<tr>
<td>San Andreas</td>
<td>17</td>
<td>7.9</td>
</tr>
</tbody>
</table>
6. **SEISMICITY**

The site is located within a zone of high seismic activity related to the active faults that transverse through the surrounding region. Future damaging earthquakes could occur on any of these fault systems during the lifetime of the proposed project. In general, the intensity of ground shaking at the site will depend upon the distance to the causative earthquake epicenter, the magnitude of the shock, the response characteristics of the underlying earth materials, and the quality of construction. Seismic considerations and hazards are discussed in the following subsections of this report.

7. **SUBSURFACE CONDITIONS**

a. **Soils.** The subsurface conditions of the site were investigated by drilling 10 exploratory boreholes (BH-1 through BH-10) within the project boundaries to depths between 10 and 51.5 feet below the existing ground surface. The approximate borehole locations are shown on the Borehole Location Plan, Plate 2. The boreholes were performed to observe the soil strata and to collect soil samples of the underlying strata for laboratory testing. The drilling and sampling procedures and descriptive borehole logs are included in Appendix A. The laboratory procedures are included in Appendix B.

The exploratory boreholes encountered discontinuous, heterogeneous alluvial type soil deposits that extended to the maximum depths explored. Generally, the upper seven and one-half to 15.5 feet of the surface is blanketed with continuous deposits of medium to highly plastic sandy and silty clays. The strata generally varied from slightly moist to saturated and stiff to hard in consistency.

Underlying the surface clays, the boreholes encountered medium dense to very dense granular deposits consisting of clayey sands, gravelly sands, clayey gravels, and sandy gravels that extended to a depth of 36 feet in BH-1. These deposits appeared moist to saturated and fine to coarse grained. Underlying the granular deposits in BH-1 at a depth of 36 feet, was a medium plastic sandy clay deposit that extended to the maximum depth explored. This deposit appeared saturated and very stiff.

b. **Groundwater.** Groundwater was encountered in most of the boreholes at the time of our exploration on May 7 and May 10, 2005. The groundwater levels appeared to stabilize at depths between five and 12 feet below the existing ground surface. The upper groundwater level is likely a perched condition. No active springs or surface seeps were observed on the project site. It has been our experience that groundwater levels in the area can fluctuate due to seasonal rainfall and other factors, and likely rises and falls by several feet throughout the year. The evaluation of these factors is beyond the scope of this report.
8. GEOLOGIC HAZARDS & SEISMIC CONSIDERATIONS

The site is located within a region subject to a high level of seismic activity. Therefore, the site could experience strong seismic ground shaking during the lifetime of the project. The following discussion reflects the geologic hazards and possible earthquake effects which could result in damage to the proposed structures.

a. **Fault Rupture.** Rupture of the ground surface is expected to occur along known active fault traces. No evidence of existing faults or previous ground displacement at the site due to fault movement is indicated in the geologic literature or field exploration. Therefore, the likelihood of ground rupture at the site due to faulting is considered to be low.

b. **Ground Shaking.** The site has been subjected in the past to ground shaking by earthquakes on the active fault systems that traverse the region. It is believed that earthquakes with significant ground shaking will occur in the region within the next several decades. Therefore, it must be assumed that the site will be subjected to strong ground shaking during the design life of the structures.

c. **Liquefaction.** Our field exploration revealed saturated granular soil strata at the site. However, these deposits have a high relative density and contained an average of approximately 15 percent fines. Our analysis indicates that these deposits are not prone to liquefaction. Therefore, it is judged that liquefaction is not likely to occur at the site.

d. **Lateral Spreading and Lurching.** Lateral spreading is normally induced by vibration of near-horizontal alluvial soil layers adjacent to an exposed face. Lurching is an action, which produces cracks or fissures parallel to streams or banks when the earthquake motion is at right angles to them. There are no exposed faces or creek embankments adjacent to the site. Therefore, we judge that the potential for lateral spreading and lurching at the site is low.

e. **Expansive Soils.** Based on Atterburg limits testing (PI=25,35), and our experience with other projects in the area, the surface and near surface soils are highly plastic. Therefore, the surface and near surface soils should be considered highly expansive.

9. CONCLUSIONS

Based on the results of our investigation, it is our professional opinion that the project is feasible from a geotechnical engineering standpoint provided the recommendations contained in this report are incorporated into the design and carried out through construction. The primary geotechnical concern in design and construction of the project is the presence of highly expansive surface soils.
The surface soils at the site are highly expansive. Shrinking and/or swelling of these soils due to loss or increase in moisture content can cause irregular and differential ground movement that can cause distress and damage to lightly loaded foundations, concrete slabs-on-grade and pavements. These soils are not suitable for support of shallow foundations or conventional concrete slabs-on-grade. Therefore, the structures should be supported by post-tensioned concrete slabs-on-grade.

Conventional concrete slabs-on-grade used for exterior flatwork will be prone to differential movement and cracking from the expansive soils. If this risk is acceptable to the owner, the slabs may be constructed on the soils in their existing condition. If this risk is not acceptable, the top 12 inches of exterior slab subgrade should be removed and replaced with non-expansive engineered fill under the direction of the geotechnical engineer in the field at the time of construction.

Asphaltic concrete pavements may be constructed on properly moisture conditioned expansive soils provided the owner understands that the shrinkage and expansion properties of the subgrade soils could cause cracking of the pavements, especially along the edges. If optimum pavement performance is desired, the upper 18 inches of the pavement subgrade should consist of a non-expansive material that extends at least three feet beyond the pavement edges.

Based on environmental testing performed, the surface and near surface soils should not adversely impact concrete, mortar, grout or reinforcing steel and standard concrete mixes should be adequate. Buried metals, such as utility pipes, would benefit greatly from alkaline treatment to raise the pH of the soils to 7.5 to 8.5. Resistant steels, increased gauge thickness, special coatings, plastic pipe or encasing buried metals in special engineered fill would also help prevent early deterioration of buried metals.

The following sections present geotechnical recommendations and criteria for design and construction of the project.

10. SITE GRADING AND EARTHWORK

a. Stripping. We recommend that structural areas be stripped of surface vegetation, roots and the upper few inches of soil containing organic matter. The stripplings should be removed from the site or stockpiled for later use in landscape areas. Excavation should then be performed to achieve final grade. Any existing wells or septic systems, if present, should be abandoned in accordance with the requirements of the County of Sonoma Health Department. Voids left by the removal of obstructions should be replaced with compacted engineered fill.

b. Excavation and Compaction. The weak surface soils should be removed and firm native soils exposed as determined by the geotechnical engineer in the field during construction. The bottom of the subexcavation should
be scarified to a depth of eight inches, moisture conditioned to three to five percent over the optimum moisture content, and compacted to a minimum of 90 percent of the maximum dry density of the materials, as determined by the ASTM D1557 laboratory compaction test procedure. All fill material should be placed and compacted in accordance to the recommendations presented in Table 2. We do not anticipate that fill will be imported to the site. However, if import fill is required it should be of a low to non-expansive nature and should meet the following criteria:

Plasticity Index  
Liquid Limit  
Percent Soil Passing #200 Sieve  
Maximum Aggregate Size  

less than 12  
less than 35  
between 15% and 35%  
4 inches

The existing on-site soils, free of organics and rocks larger than four inches in dimension, are suitable for use as general engineered fill. All fills should be placed in lifts no greater than eight inches in loose thickness; moisture conditioned and compacted to the recommendations provided for engineered fill.

### TABLE 2

<table>
<thead>
<tr>
<th>Area</th>
<th>Compaction Recommendations*</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Engineered Fill</td>
<td>In lifts, a maximum of eight inches loose thickness, compact to 90 percent relative compaction at two to four percent over the optimum moisture content.</td>
</tr>
<tr>
<td>General Engineered Fill</td>
<td>In lifts, a maximum of eight inches loose thickness, compact to 90 percent relative compaction at or within two percent of the optimum moisture content.</td>
</tr>
<tr>
<td>Trenches (Granular Backfill)</td>
<td>Compact to at least 90 percent relative compaction at or within two percent of optimum moisture content. Compact to at least 95 percent relative compaction in pavement areas within one foot of subgrade elevation.</td>
</tr>
<tr>
<td>Parking and Access Drive</td>
<td>Compact the top eight inches of subgrade to 92 percent relative compaction at two to four percent over the optimum moisture content. Compact the entire aggregate base section to at least 95 percent relative compaction.</td>
</tr>
<tr>
<td>Drive ways (Native)</td>
<td></td>
</tr>
</tbody>
</table>

* All compaction requirements stated in this report refer to dry density and moisture content relationships obtained through the laboratory standard described by ASTM D-1557.

A representative of PJC should observe all site preparation and fill placement. It is important that during the stripping, grading and scarification processes, a representative of our firm be present to observe whether any undesirable material
is encountered in the construction area.

Generally, grading is most economically performed during the summer months when on site soils are usually dry of optimum moisture content. Delays should be anticipated in site grading performed during the rainy season or early spring due to excessive moisture in on-site soils. Special and relatively expensive construction procedures should be anticipated if grading must be completed during the winter and early spring.

Cut and fill slopes should be no steeper than two horizontal to one vertical (2H:1V). Steeper slopes should be retained. Disturbed slopes should be planted with deep-rooted groundcover to reduce and control erosion.

11. FOUNDATIONS: POST-TENSIONED SLABS

a. Vertical Loads. Due to the expansive soils, the structures should be supported on post-tension slab foundations. Post-tensioned slabs should be designed to be rigid and capable of resisting both positive and negative moments. For design purposes, we recommend that the slabs be design to span areas of non-uniform support for full structural loading in both directions.

The slabs should be designed according to the following criteria, which are based on values given in Chapter 18 of Volume 2 of the 2001 edition of the California Building Code, assuming 70 percent montmorillonite clay.

1. Edge Moisture Variation Distance (center lift) = 4 feet
2. Edge Moisture Variation Distance (edge lift) = 5 feet
3. Estimated Differential Swell (center lift) = 0.251 inches
4. Estimated Differential Swell (edge lift) = 0.219 inches
5. Allowable Bearing Capacity = 1,500 psf

We recommend a minimum slab thickness of 10 inches. To minimize moisture propagation through the slab, the subgrade should be covered by a minimum 10 mil thick impermeable membrane. The membrane should be taped at all utility connections through the slab to reduce the risk of moisture migration. The membrane should be covered with two inches of clean sand for protection during concrete placement.

A minimum 12-inch wide thickened edge should be constructed around the perimeter of the slabs. The thickened edge should bear directly on engineered fill. The subgrade material should not be allowed to dry out prior to post-tensioned slab construction. If drying does occur, the slab subgrade should be re-moisture conditioned to wet of optimum moisture content before the under slab membrane is installed.
b. **Settlement.** The majority of the settlement is expected to be small and occur during construction and placement of dead loads. Total settlement is expected to be less than one inch. A maximum differential settlement of one-half of one inch is anticipated.

c. **Lateral Loads.** Resistance to lateral forces may be computed by using base friction or adhesion. A friction factor of 0.30 is considered appropriate between the bottom of the concrete structures and the subgrade soils.

12. **CONVENTIONAL SLABS-ON-GRADE**

Exterior slabs-on-grade may be constructed on the expansive surface soils if the risk of heave and cracking is acceptable to the owner. If the risk is not acceptable, the slabs should be supported on 12 inches of non-expansive engineered fill. The lateral extent of the fill should extend at least three feet beyond the perimeter edges. Regardless, the slab subgrade should be scarified to a depth of eight inches, moisture conditioned to two to four percent over the optimum moisture content and rolled to produce a firm and unyielding surface. The slab subgrade should not be allowed to dry before placing concrete.

Conventional exterior slabs-on-grade should be underlain by a four-inch layer of compacted clean gravel or crushed rock. The rock will serve as a capillary break; however, moisture may accumulate in the base course. Therefore, a plastic vapor barrier of at least 10-mil thickness should be provided over the rock where moisture protection is desired. To aid in curing the concrete and to protect the vapor barrier against puncture, the vapor barrier should be covered by a two-inch layer of moistened sand.

Slabs should be at least four inches thick and should be reinforced to reduce and control cracking. Special care should be taken to insure that reinforcement is placed at the slab mid-height. Slabs should be provided with control joints at regular intervals to induce and control cracking. Slabs should be cast and maintained separate from adjacent foundations.

13. **DRAINAGE**

All final grades should be provided with positive gradients away from all foundations to provide rapid removal of surface water runoff to an adequate discharge point. No ponding of water should be allowed on the pads or adjacent to the foundations.

The use of continuous roof gutters is recommended to reduce the possibility of soil saturation adjacent to the buildings. Downspouts from gutters should be discharged into a closed conduit discharging a minimum of eight feet away from the structures.
14. **UTILITY TRENCHES**

Shallow excavations for footings and utility trenches can be readily made with either a backhoe or trencher; larger earth moving equipment should be used for deeper excavations. We expect the walls of trenches less than five feet deep, excavated into engineered fill or native soils, to remain in a near vertical configuration during construction provided no equipment or excavated soil surcharges are located near the top of the excavation. Where trenches extend deeper than five feet, the excavation may become unstable. All trenches, regardless of depth, should be evaluated to monitor stability prior to personnel entering the trenches. Shoring or sloping of any deep trench wall may be necessary to protect personnel and to provide stability. All trenches should conform to the current CAL-OSHA requirements for worker safety.

We recommend that trenches be backfilled with native soil or granular import fill and compacted to at least 90 percent of the maximum dry density. The moisture content of compacted backfill soils should be within two percent of optimum moisture content. Jetting should not be used.

Special care should be taken in the control of utility trench backfilling in pavement areas and slab-on-grade areas. Poor compaction may cause excessive settlements resulting in damage to the pavements and concrete slabs-on-grade. In pavement areas, the top eight inches of trench backfill should be compacted to at least 95 percent relative compaction.

15. **SEISMIC DESIGN**

Based on the data reviewed, it is concluded that the project site could be subjected to seismic shaking from earthquakes on the active faults primarily in the Coast Ranges. Based on criteria of the 2001 edition of the California Building Code (CBC), the following should be used in seismic design:

a. **Distance and Source:** 4 KM (Rodgers Creek)
b. **Fault Type:** A
c. **Soil Profile Factor:** Sd
d. **Near Source Factors:** Na = 1.4
   \[Nv = 1.73\]
e. **Seismic Coefficients:** Ca = 0.62
   \[Cv = 1.12\]
16. ASPHALTIC CONCRETE PAVEMENTS

Based on our investigation, the existing surface soils will have a low supporting capacity (after properly compacted) when used as a pavement subgrade. Based on Resistance Value testing, an R-value of 5 was selected for use in asphaltic concrete pavement design calculations. Pavement design sections are presented in Table 3.

Pavement thickness was computed from Chapter 600 of the Caltrans Highway Design Manual and is based on a pavement life of 20 years. The Traffic Indexes (TI) used are judged representative of the anticipated traffic but are not based on actual vehicle counts. The actual traffic indexes should be determined and provided by the project civil engineer.

Prior to placement of the aggregate base material, the top eight inches of the pavement subgrade should be scarified to at least eight inches deep, moisture conditioned to two to four percent over the optimum moisture content, and compacted to a minimum of 92 percent relative compaction. If optimum pavement performance is desired, the top 18 inches should consist of non-expansive fill compacted to 95 percent compaction. The lateral extent of the fill should extend at least three feet beyond the edge of the pavement. Aggregate base materials should be spread in thin layers, moisture conditioned, and compacted to at least 95 percent relative compaction to form a firm and unyielding base.

The material and methods used should conform to the requirements of the current edition of the Caltrans Standard Specifications, except that compaction requirements for the soil subgrade and aggregate base should be based on ASTM D-1557. Aggregate used for the base course should comply with the minimum requirements specified in Caltrans Standard Specifications, Section 26, for Class 2 aggregate base.

In general, the pavements should be constructed during the dry season to avoid the saturation of the subgrade and base materials, which often occurs during the wet winter months. If pavements are constructed during the winter and early spring, a cost increase relative to drier weather construction should be anticipated. The soils engineer should be consulted for recommendations at the time of construction.

<table>
<thead>
<tr>
<th>Traffic Index</th>
<th>Asphaltic Concrete (in)</th>
<th>Class II Aggregate Base (in)</th>
</tr>
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<tbody>
<tr>
<td>4.0</td>
<td>2.0</td>
<td>8.5</td>
</tr>
<tr>
<td>5.0</td>
<td>2.5</td>
<td>11.0</td>
</tr>
<tr>
<td>6.0</td>
<td>3.0</td>
<td>13.5</td>
</tr>
<tr>
<td>7.0</td>
<td>3.5</td>
<td>16.5</td>
</tr>
</tbody>
</table>

TABLE 3
PAVEMENT DESIGN FOR PAVEMENT AREAS
(Subgrade R-Value=5)
Where pavements will abut landscaped areas, water can seep below the concrete curb and into the base rock within the pavement section. Continued saturation of the base rock leads to permanent wetness towards the lower elevation of the pavement where water ponds. Soft subgrade conditions and pavement damage can occur as a result.

Several precautionary measures can be taken to minimize the intrusion of water into the base rock; however, the cost to install the protective measures should be balanced against the cost of repairing damaged pavement sections. An alternative, which can be taken to extend the life of the pavement, would be to construct a cutoff wall along the perimeter edge of the pavement. The wall should consist of a lean concrete mix. The wall, which can be constructed by excavating a trench, should be constructed four inches wide and at least 36 inches below the top of pavement.

17. **LIMITATIONS**

The data, information, interpretations and recommendations contained in this report are presented solely as bases and guides to the geotechnical design of the proposed residential development located at 1980-2010 Burbank Avenue in Santa Rosa, California. The conclusions and professional opinions presented herein were developed by PJC in accordance with generally accepted geotechnical engineering principles and practices. No warranty, either expressed or implied, is intended.

This report has not been prepared for use by parties other than the designers of the project. It may not contain sufficient information for the purposes of other parties or other uses. If any changes are made in the project as described in this report, the conclusions and recommendations contained herein should not be considered valid, unless the changes are reviewed by PJC and the conclusions and recommendations are modified or approved in writing. This report and the figures contained herein are intended for design purposes only. They are not intended to act by themselves as construction drawings or specifications.

Soil deposits may vary in type, strength, and many other important properties between points of observation and exploration. Additionally, changes can occur in groundwater and soil moisture conditions due to seasonal variations or for other reasons. Therefore, it must be recognized that we do not and cannot have complete knowledge of the subsurface conditions underlying the subject site. The criteria presented is based on the findings at the points of exploration and on interpretative data, including interpolation and extrapolation of information obtained at points of observation.

18. **ADDITIONAL SERVICES**

Upon completion of the project plans, they should be reviewed by our firm to determine that the design is consistent with the recommendations of this report.
During the course of this investigation, several assumptions were made regarding development concepts. Should our assumptions differ significantly from the final intent of the project designers, our office should be notified of the changes to assess any potential need for revised recommendations. Observation and testing services should also be provided by PJC to verify that the intent of the plans and specifications are carried out during construction; these services should include field density testing of engineered fill, pre-placement tendon and rebar inspections, concrete inspections and sampling during placement and tendon stressing inspections.

These services will be performed only if PJC is provided with sufficient notice to perform the work. PJC does not accept responsibility for items we are not notified to observe.

It has been a pleasure working with you on this project. Please call if you have any questions regarding this report or if we can be of further assistance.

Sincerely,

PJC & ASSOCIATES, INC.
APPENDIX A
FIELD INVESTIGATION

1. INTRODUCTION

The field program performed for this study consisted of drilling 10 exploratory boreholes (BH-1 through BH-10) evenly distributed across the site. The exploration was completed on May 7 and May 10, 2007. The borehole locations are shown on the Borehole Location Plan, Plate 2. Descriptive logs of the boreholes are presented in this appendix as Plates 3 through 12.

2. BOREHOLES

The boreholes were advanced using a truck mounted drill rig with solid and hollow stem flight augers. The drilling was performed under the observation of a civil engineer of PJC who maintained a continuous log of soil conditions and obtained soil samples suitable for laboratory testing. The soils were classified in accordance with the Unified Soil Classification System, as explained in Plate 11.

Relatively undisturbed and disturbed samples were obtained from the exploratory boreholes. A 2.43 in I.D. California Modified Sampler or a 1.5 in I.D. Standard Sampler was driven into the underlying soil using a 140-pound hammer falling 30 inches to obtain an indication of the density of the soil and to allow visual examination of at least a portion of the soil column. Soil samples obtained with the split-spoon sampler were retained for further observation and testing. The number of blows required to drive the sampler at six-inch increments was recorded on each borehole log. All samples collected were labeled and transported to PJC’s office for examination and laboratory testing.
EXPLANATION

- BORE HOLE LOCATION AND DESIGNATION
- REDUCED SCALE

LOG OF BOREHOLE NO. BH-1
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1960-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

TYPE: HOLLOW STEM AUGER  LOCATION: CENTRAL

<table>
<thead>
<tr>
<th>DEPTH FT.</th>
<th>SYMBOL</th>
<th>SAMPLES PER FOOT ON RECOVERY, %</th>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./DEPTH</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>PLASTICITY INDEX (PI), %</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT, PCF</th>
<th>compressive stress</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURF. EL</td>
<td>22</td>
<td></td>
<td>0.0-2.5'; SILTY CLAY (CH); moderate to dark brown with orange mottling, moist, stiff, high plasticity. (ALLUVIUM)</td>
<td>2.5</td>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>41</td>
<td></td>
<td>2.5-4.5'; SANDY CLAY (CH); light grayish brown, moist, hard, high plasticity. (ALLUVIUM)</td>
<td></td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>57</td>
<td></td>
<td>4.5-9.0'; SILTY CLAY (CL); light grayish brown, moist, stiff, medium plasticity. (ALLUVIUM)</td>
<td>4.5</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-10</td>
<td>71</td>
<td></td>
<td>9.0-13.0'; CLAYEY GRAVEL (GC); moderate brown, saturated, dense, fine to coarse grained. (ALLUVIUM)</td>
<td>9.0</td>
<td>24</td>
<td>14</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-15</td>
<td>50/4a</td>
<td></td>
<td>13.0-18.0'; GRAVELLY SAND (SP); brown, saturated, very dense, fine to coarse grained. (ALLUVIUM)</td>
<td>13.0</td>
<td>18</td>
<td>2</td>
<td>111</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-20</td>
<td>36</td>
<td></td>
<td>18.0-30.0'; CLAYEY SAND (SC); moderate brown, saturated, medium dense, fine to coarse grained. (ALLUVIUM)</td>
<td>18.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>-25</td>
<td>29</td>
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<td></td>
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</tr>
</tbody>
</table>

COMPLETION DEPTH: 51.5'  DEPTH TO WATER: 9.5 FEET
DATE: 5-7-07

U=Unconfined  P=Pocket Penetrometer
Q=Unconsolidated- T=Tervane
Undrained Triaxial

PLATE 3a
**LOG OF BOREHOLE NO. BH-1**  
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT  
1980-2010 BURBANK AVENUE  
SANTA ROSA, CALIFORNIA

<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
<th>SAMPLES</th>
<th>BLOWS PER FOOT</th>
<th>RECOVERY, %</th>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./DEPTH</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>PLASTICITY INDEX (PI), %</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT,pcf</th>
<th>COMPRESSION TEST</th>
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</thead>
<tbody>
<tr>
<td>30.0-36.0'</td>
<td></td>
<td>88</td>
<td></td>
<td></td>
<td>30.0; CLAYEY SAND (SW-SC); moderate brown, saturated, medium dense to very dense, fine to coarse grained, with gravel. (ALLUVIUM)</td>
<td>30.0</td>
<td></td>
<td></td>
<td></td>
<td>9</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>36.0-51.5'</td>
<td></td>
<td>21</td>
<td></td>
<td></td>
<td>36.0; SANDY CLAY (CL); moderate brown to dark grayish brown, saturated, very stiff, medium plasticity. (ALLUVIUM)</td>
<td>36.0</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51.5</td>
<td></td>
<td>29</td>
<td></td>
<td></td>
<td>TERMINATED AT 51.5 FEET</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COMPLETION DEPTH:** 51.5'  
**DEPTH TO WATER:** 9.5 FEET  
**DATE:** 5-7-07
LOG OF BOREHOLE NO. BH-2  
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT  
1980-2010 BURBANK AVENUE  
SANTA ROSA, CALIFORNIA

TYPE: SOLID STEM AUGER  LOCATION: SOUTH

<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
<th>SAMPLES PER FOOT</th>
<th>BLOW COUNT OR RECOVERY, %</th>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./DEPTH</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>PLASTICITY INDEX, %</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT, PCF</th>
<th>COMPRRESSIVE STRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURF. EL</td>
<td></td>
<td></td>
<td></td>
<td>0.0-2.5'; SILTY CLAY (CH); dark brown, slightly moist to moist, medium stiff, high plasticity. (ALLUVIUM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
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<td>2.5</td>
<td>20</td>
<td>102</td>
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<td></td>
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</tr>
<tr>
<td>52</td>
<td></td>
<td></td>
<td></td>
<td>2.5-5.0'; SANDY CLAY (CH); pale gray brown, moist, hard, high plasticity. (ALLUVIUM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.0-8.5'</td>
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<td></td>
<td></td>
<td>5.0</td>
<td>20</td>
<td>105</td>
<td>4.5(P)</td>
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</tr>
<tr>
<td>8.5-10.5'</td>
<td></td>
<td></td>
<td></td>
<td>8.5-10.5'; GRAVELLY SAND (SP); mottled orange and brown, wet, dense, fine to coarse grained. (ALLUVIUM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>55/9°</td>
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<td>109</td>
<td></td>
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TERMINATED AT 10.5 FEET

COMPLETION DEPTH: 10.5'  DEPTH TO WATER: NOT ENCOUNTERED

DATE: 5-7-07

U=Unconfined  P=Pocket Penetrometer  
Q=Unconsolidated-  T=Torrance  
Undrained Triaxial
## LOG OF BOREHOLE NO. BH-3
### PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

**Type:** SOLID STEM AUGER  
**Location:** WEST

<table>
<thead>
<tr>
<th>Depth, ft</th>
<th>Symbol</th>
<th>Samples per Foot or Recovery, %</th>
<th>Stratum Description</th>
<th>Layer Elevation/Depth</th>
<th>Water Content, %</th>
<th>Liquid Limit, %</th>
<th>Plastic Limit, %</th>
<th>Plasticity Index (PI, %)</th>
<th>Passing 200 Sieve, %</th>
<th>Unit Dry Weight, PCP</th>
<th>Compressive Strength, MPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0-3.0'</td>
<td>40</td>
<td></td>
<td>SURF. EL 0.0-3.0'; Silty Clay (CH); dark brown, moist, hard, high plasticity. (ALLUVIUM)</td>
<td>3.0</td>
<td>19</td>
<td>104</td>
<td></td>
<td>4.25 (P)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3.0-7.5'</td>
<td>50</td>
<td></td>
<td>3.0-7.5'; Silty Clay (CH); pale brown, moist to saturated, stiff, high plasticity, sand increasing with depth. (ALLUVIUM)</td>
<td>7.5</td>
<td>27</td>
<td>95</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5-9.5'</td>
<td>38</td>
<td></td>
<td>7.5-9.5'; Clayey Sand (SC); pale brown with orange mottling, saturated, medium dense, fine to coarse grained. (ALLUVIUM)</td>
<td>9.5</td>
<td>16</td>
<td>115</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>9.5-13.0'</td>
<td>50/4&quot;</td>
<td></td>
<td>9.5-13.0'; Clayey Sand (SC); moderate brown, saturated, dense, fine to coarse grained. (ALLUVIUM)</td>
<td>13.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Terminated at 13.0 feet**

**Completion Depth:** 13.0'  
**Depth to Water:**  6.0 FEET

**Date:** 5-7-07

---

U = Unconfined  
P = Pocket Penetrometer  
Q = Unconsolidated- Undrained Triaxial  
T = Torvane

PLATE 5
<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
<th>BLOWS PER FOOT OR RECOVERY, %</th>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./DEPTH</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>PLASTICITY INDEX (PL), %</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT, PCP</th>
<th>COMPRESSIVE STRENGTH, TFSF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURF. EL</td>
<td></td>
<td></td>
<td>0.0-4.0'; SANDY CLAY (CL); dark brown, slightly moist to moist, very stiff, high plasticity. (ALLUVIUM)</td>
<td>30</td>
<td>23</td>
<td>44</td>
<td>19</td>
<td>25</td>
<td>101</td>
<td>2.5(P)</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
<td>4.0-13.0'; SANDY CLAY (CH); moderate brown, moist to saturated, very stiff to hard, high plasticity, with sand and gravel lenses. (ALLUVIUM)</td>
<td>35</td>
<td>4.0</td>
<td>22</td>
<td>101</td>
<td>2.5(P)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>71</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>111</td>
<td>4.5(P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>16</td>
<td>117</td>
<td>4.5(P)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13</td>
<td>111</td>
<td>4.5(P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15.5</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

TERMINATED AT 15.5 FEET

COMPLETION DEPTH: 15.5'  DEPTH TO WATER: 7.0 FEET

DATE: 5-10-07

U=Unconfined, P=Pocket Penetrometer, Q=Unconsolidated, T=Torvane, Undrained Triaxial

PLATE 6
LOG OF BOREHOLE NO. BH-5
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

TYPE: SOLID STEM AUGER  LOCATION: SOUTHWEST

<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
<th>SAMPLER</th>
<th>SAMPLES PER BOOT</th>
<th>RECOVERY, %</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./DEPTH</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>PLASTICITY INDEX (PI, %)</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT, PCF</th>
<th>COMPRESSION INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURF. EL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.0-3.0'</td>
<td>3.0</td>
<td>25</td>
<td>92</td>
<td>4.5(P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SILTY CLAY (CH);</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>dark brown, slightly moist to moist, stiff, high plasticity, sand increasing with depth.  (ALLUVIUM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0-7.5'</td>
<td>7.5</td>
<td>22</td>
<td>103</td>
<td>4.5(P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SANDY CLAY (CH);</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pale brown, moist to saturated, hard, high plasticity. (ALLUVIUM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5-11.0'</td>
<td>11.0</td>
<td>15</td>
<td>10</td>
<td>115</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAYEY SAND (SW-SC);</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>moderate brown, saturated, dense, fine to coarse grained, with gravel. (ALLUVIUM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TERMINATED AT 11.0 FEET

COMPLETION DEPTH: 11.0'  DEPTH TO WATER: 7.0 FEET
DATE: 5-10-07

U=Unconfined  P=Pocket Penetrometer
Q=Unconsolidated- Undrained Triaxial  T=Torrance

PLATE 7
**LOG OF BOREHOLE NO. BH-6**
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
<th>SAMPLES PER RECOVERY, %</th>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./ DEPTH</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>ELASTICITY INDEX (Pl), %</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT, PCF</th>
<th>COMPRRESSIVE STRENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td></td>
<td></td>
<td>0.0-3.5'; SILTY CLAY (CH); dark brown, moist, stiff, high plasticity. (ALLUVIUM)</td>
<td>21</td>
<td>89</td>
<td>1.5(P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td></td>
<td></td>
<td>3.5-6.0'; SILTY CLAY (CH); pale brown, moist to saturated, very stiff, high plasticity. (ALLUVIUM)</td>
<td>3.5</td>
<td>27</td>
<td>96</td>
<td>3.75(P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>28</td>
<td></td>
<td></td>
<td>6.0-9.0'; SANDY CLAY (CL); pale brown with orange motling, saturated, stiff, low plasticity, with gravel. (ALLUVIUM)</td>
<td>6.0</td>
<td>20</td>
<td>105</td>
<td>1.75(P)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80</td>
<td></td>
<td></td>
<td>9.0-12.5'; SANDY GRAVEL (GP); brown, saturated, dense, medium grained. (ALLUVIUM)</td>
<td>9.0</td>
<td>12</td>
<td>131</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TERMINATED AT 12.5 FEET**

**COMPLETION DEPTH:** 12.5'  **DEPTH TO WATER:** 5.0 FEET

**DATE:** 5-10-07

U = Unconfined  P = Pocket Penetrometer
Q = Unconsolidated- Undrained Triaxial  T = Torvane
**LOG OF BOREHOLE NO. BH-7**

PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT

1980-2010 BURBNK AVENUE

SANTA ROSA, CALIFORNIA

<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
<th>SAMPLES PER BLOW</th>
<th>Recovery, %</th>
<th>STRATUM DESCRIPTION</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>PLASTICITY INDEX (PI), %</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT, PCF</th>
<th>COMPRESSION STRENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2.75&quot;</td>
<td></td>
<td></td>
<td></td>
<td>SURF. EL 0.0-2.75&quot;; SILTY CLAY (CH); dark brown, moist, stiff, high plasticity. (ALLUVIUM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
<td></td>
<td>2.75-6.5&quot;; SANDY CLAY (CL); moderate brown with orange mottling, moist, very stiff, medium plasticity, with gravel. (ALLUVIUM)</td>
<td>2.7</td>
<td>19</td>
<td></td>
<td></td>
<td>96</td>
<td></td>
<td>3.5(P)</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td>6.5-12.5&quot;; SANDY CLAY (CL); pale brown, moist to saturated, hard to stiff, medium plasticity. (ALLUVIUM)</td>
<td>6.5</td>
<td>20</td>
<td></td>
<td></td>
<td>108</td>
<td></td>
<td>4.5(P)</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td>12.5-13.25; SANDY GRAVEL (GP); saturated, very dense, fine to coarse grained. (ALLUVIUM)</td>
<td>12.5</td>
<td>14</td>
<td></td>
<td></td>
<td>116</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.3&quot;</td>
<td></td>
<td></td>
<td></td>
<td>TERMINATED AT 13.25 FEET</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

COMPLETION DEPTH: 13.3"   DEPTH TO WATER: 12.0 FEET

DATE: 5-10-07

U=Unconfined \quad P=Pocket Penetrometer
Q=Unconsolidated- \quad T=Termeone
Undrained Triaxial
LOG OF BOREHOLE NO. BH-8
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

TYPE: SOLID STEM AUGER
LOCATION: SOUTHEAST

<table>
<thead>
<tr>
<th>DEPTH, FT</th>
<th>SYMBOL</th>
<th>SAMPLES PER RECOVERY, %</th>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./ DEPTH</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>PLASTICITY INDEX (P.I.), %</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT, PCF</th>
<th>COMPRRESSIVE STRENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SURF. EL</td>
<td>33</td>
<td></td>
<td>0.0-4.0'; SANDY CLAY (CH); dark brown, moist, hard, high plasticity. (ALLUVIUM)</td>
<td>0.0</td>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>107</td>
<td>4.0(P)</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td></td>
<td>4.0-8.0'; SANDY CLAY (CL); orangish brown, moist, hard, low plasticity. (ALLUVIUM)</td>
<td>4.0</td>
<td>17</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>110</td>
<td>4.5(P)</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td></td>
<td>8.0-10.0'; SANDY CLAY (CH); pale brown, moist, stiff, high plasticity. (ALLUVIUM)</td>
<td>8.0</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>106</td>
<td>1.75(P)</td>
</tr>
</tbody>
</table>

TERMINATED AT 10.0 FEET

COMPLETION DEPTH: 10.0' DEPTH TO WATER: NOT ENCOUNTERED

DATE: 5-10-07

U = Unconfined
P = Pocket Penetrometer
Q = Unconsolidated-Drained
T = Torvane
Undrained Triaxial

PLATE 10
### LOG OF BOREHOLE NO. BH-9
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SYMBOL</th>
<th>SAMPLES PER FOOT</th>
<th>BLOW PER FOOT</th>
<th>RECOVERY %</th>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./DEPTH</th>
<th>WATER CONTENT, %</th>
<th>LIQUID LIMIT, %</th>
<th>PLASTIC LIMIT, %</th>
<th>PLASTICITY INDEX (IL), %</th>
<th>PASSING NO. 200 SIEVE, %</th>
<th>UNIT DRY WEIGHT, PCF</th>
<th>COMPRRESSIVE STRENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SURF. EL 0.0-3.5’; SILTY CLAY (CH); dark brown, moist, very stiff, high plasticity, with few gravels. (ALLUVIUM)</td>
<td></td>
<td>20 50 15 35</td>
<td></td>
<td></td>
<td></td>
<td>97 (P)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.5-8.25’; SANDY CLAY (CH); pale brown, moist, hard, high plasticity, with gravel. (ALLUVIUM)</td>
<td>3.5</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td>105 4.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.25-11.5’</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8.3</td>
<td>8.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TERMINATED AT 11.5 FEET</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Completion Depth: 11.5’**  **Depth to Water: Not Encountered**

**Date: 5-10-07**

U = Unconfined  P = Pocket Penetrometer
Q = Unconsolidated- Undrained Triaxial  T = Torvane

**PLATE 11**
LOG OF BOREHOLE NO. BH-10
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

TYPE: SOLID STEM AUGER  LOCATION: NORTHEAST

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>SYMBOL</th>
<th>SAMPLES PER BLOWS PER FOOT</th>
<th>STRATUM DESCRIPTION</th>
<th>LAYER ELEV./DEPTH</th>
<th>WATER CONTENT %</th>
<th>LIQUID LIMIT %</th>
<th>PLASTIC LIMIT %</th>
<th>PLASTICITY INDEX PD %</th>
<th>PASSING NO. 200 SIEVE %</th>
<th>UNIT DRY WEIGHT, PCF</th>
<th>COMPRESSION STRENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1</td>
<td></td>
<td></td>
<td>SURF. EL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-3.25'</td>
<td></td>
<td></td>
<td>0.0-3.25'; SANDY CLAY (CH); dark brown, slightly moist, stiff; high plasticity. (ALLUVIUM)</td>
<td>3.3</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.25-9.0'</td>
<td></td>
<td></td>
<td>3.25-9.0'; SANDY CLAY (CH); light brown, moist, hard, high plasticity. (ALLUVIUM)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25/3&quot;</td>
<td></td>
<td></td>
<td></td>
<td>3.3</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.0-10.5'</td>
<td></td>
<td></td>
<td>9.0-10.5'; CLAYEY SAND (SC); moderate brown, saturated, medium dense, fine to coarse grained. (ALLUVIUM)</td>
<td>20</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.5</td>
<td></td>
<td></td>
<td></td>
<td>10.5</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

TERMINATED AT 10.5 FEET

COMPLETION DEPTH: 10.5'    DEPTH TO WATER: 9.0 FEET

DATE: 5-10-07

U=Unconfined  P=Pocket Penetrometer
Q=Unconsolidated-  T=Torrance
Undrained Triaxial
### Unified Soil Classification System

<table>
<thead>
<tr>
<th>MAJOR DIVISIONS</th>
<th>TYPICAL NAMES</th>
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<tbody>
<tr>
<td>GRAVELS</td>
<td>WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES</td>
</tr>
<tr>
<td>GW</td>
<td>POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES</td>
</tr>
<tr>
<td>GP</td>
<td>CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES</td>
</tr>
<tr>
<td>GM</td>
<td>SILTY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES</td>
</tr>
<tr>
<td>GC</td>
<td>CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-Clay MIXTURES</td>
</tr>
<tr>
<td>SW</td>
<td>WELL GRADED SANDS, GRAVELLY SANDS</td>
</tr>
<tr>
<td>SP</td>
<td>POORLY GRADED SANDS, GRAVELLY SANDS</td>
</tr>
<tr>
<td>SM</td>
<td>SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES</td>
</tr>
<tr>
<td>SC</td>
<td>CLAYEY SANDS, POORLY GRADED SAND-Clay MIXTURES</td>
</tr>
<tr>
<td>SILTS AND CLAYS</td>
<td>INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOOR, SILTY OR CLAYEY FINE SANDS, OR CLAYEY SILTS WITH SLIGHT PLASTICITY</td>
</tr>
<tr>
<td>ML</td>
<td>INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS</td>
</tr>
<tr>
<td>CL</td>
<td>ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY</td>
</tr>
<tr>
<td>OL</td>
<td>INORGANIC SILTS, MUCACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS</td>
</tr>
<tr>
<td>MH</td>
<td>INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS</td>
</tr>
<tr>
<td>CH</td>
<td>ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS</td>
</tr>
</tbody>
</table>

### KEY TO TEST DATA

- **Consol** - Consolidation
- **LL** - Liquid Limit (in %)
- **PL** - Plastic Limit (in %)
- **PI** - Plasticity Index
- **G_s** - Specific Gravity
- **SA** - Sieve Analysis
- **Undisturbed** Sample
- **Built or Disturbed** Sample
- Standard Penetration Test
- Sample Attempt with No Recovery

<table>
<thead>
<tr>
<th>Test</th>
<th>Code</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shear Strength, psi</td>
<td>T&lt;sub&gt;s&lt;/sub&gt;</td>
<td>320 (2600)</td>
<td>Unconsolidated Undrained Triaxial</td>
</tr>
<tr>
<td>Confining Pressure, psi</td>
<td>T&lt;sub&gt;s&lt;/sub&gt;CU</td>
<td>320 (2600)</td>
<td>Consolidated Undrained Triaxial</td>
</tr>
<tr>
<td>Plastic Limit, psi</td>
<td>DS</td>
<td>2750 (2000)</td>
<td>Consolidated Drained Direct Shear</td>
</tr>
<tr>
<td>Plasticity Index</td>
<td>FVS</td>
<td>470</td>
<td>Field Vane Shear</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>UC</td>
<td>2000</td>
<td>Unconfined Compression</td>
</tr>
<tr>
<td>Sieve Analysis</td>
<td>LVS</td>
<td>700</td>
<td>Laboratory Vane Shear</td>
</tr>
<tr>
<td>Shrink Swell</td>
<td>SS</td>
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<tr>
<td>Expansion</td>
<td>EXP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permeability</td>
<td>P</td>
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Note: All strength tests on 2.8" or 2.4" diameter sample unless otherwise indicated.
APPENDIX B
LABORATORY INVESTIGATION

1. INTRODUCTION

This appendix includes a discussion of test procedures and results of the laboratory investigation performed for the proposed project. The investigation program was carried out by employing, whenever practical, currently accepted test procedures of the American Society of Testing and Materials (ASTM).

Disturbed and undisturbed samples used in the laboratory investigation were obtained during the course of the field investigation as described in Appendix A of this report. Identification of each sample is by borehole number and depth.

2. INDEX PROPERTY TESTING

In the field of soil mechanics and geotechnical engineering design, it is advantageous to have a standard method of identifying soils and classifying them into categories or groups that have similar distinct engineering properties. The most commonly used method of identifying and classifying soils according to their engineering properties is the Unified Soil Classification System described by ASTM D-2487-83. The USCS is based on recognition of the various types and significant distribution of soil characteristics and plasticity of materials.

The index properties tests discussed in this report include the determination of Natural Water Content and Dry Density, Grain-Size Distribution and Atterburg limits.

a. Natural Water Content and Dry Density. Natural water content and dry density of the soils were determined on selected undisturbed samples. The samples were extruded, visually classified, trimmed to obtain a smooth flat face, and accurately measured to obtain volume and wet weight. The samples were then dried, in accordance with ASTM D-2216-80, for a period of 24 hours in an oven maintained at a temperature of 100 degrees C. After drying, the weight of each sample was determined and the moisture content and dry density calculated. The water content and dry density results are summarized on the borehole logs, Plates 3 through 12.

b. Grain-Size Distribution. The gradation characteristics of selected samples were determined in accordance with ASTM D422-63. The samples were soaked in water until individual soil particles were separated and then washed on the No. 200 mesh sieve. That portion of the material retained on the No. 200 mesh sieve was oven-dried and then mechanically sieved. The grain-size distribution tests are presented on Plates 14 through 20.
c. **Atterburg Limits Determination.** Liquid and plastic limits were determined on selected samples in accordance with ASTM D 4318-83. The results of the tests are shown on the borehole logs.

3. **ENGINEERING PROPERTIES TESTING**

The engineering properties testing consisted of unconfined compression and R-Value testing.

a. **Unconfined Compression Test.** An unconfined compression test was performed on an intact sample obtained from the boreholes. In the unconfined compression test, the shear strength is determined by axial loading the sample under a slow constant strain rate until failure is obtained. Failure stress is defined as the maximum stress at ten percent strain. The results of the test are presented on the borehole logs.

b. **R-value.** An R-value test was performed on a representative sample of the surface soils to develop criteria for design of pavement sections. The test was conducted in accordance with the California Division of Highways Test Method No. 310; the test results are shown on Plate 21.
HYDROMETER ANALYSIS
TIME READINGS

U.S. STANDARD SERIES
P00  P10  P20  P30  P40  P40  P50

CLEAR SQUARE OPENINGS

DIAMETER OF PARTICLE IN MILLIMETERS

PERCENT PASSING

PERCENT RETAINED

CLAY (PLASTIC) TO SILT (NON-PLASTIC)
SAND   GRAVEL   COBBLES

NOTE:

BH-1@ 11.0 FEET; MODERATE BROWN CLAYEY GRAVEL (GC)

SIEVE ANALYSIS
PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

PLATE 14

PJC

Project No: 3501.01
Date: 8/07
App'd by: PJC
### HYDROMETER ANALYSIS

**TIME READINGS**
- 5 MIN.
- 15 MIN.
- 30 MIN.
- 45 MIN.
- 60 MIN.
- 90 MIN.
- 1 HRS.
- 2 HRS.
- 3 HRS.
- 4 HRS.

**U.S. STANDARD SERIES**
- 5
- 4
- 3
- 2
- 1
- 0.5
- 0.2
- 0.1

**CLEAR SQUARE OPENINGS**
- 5
- 6
- 7
- 8
- 9

### SIEVE ANALYSIS

**PERCENT PASSING**
- 100
- 90
- 80
- 70
- 60
- 50
- 40
- 30
- 20
- 10

**DIAMETER OF PARTICLE IN MILLIMETERS**

<table>
<thead>
<tr>
<th>CLAY (PLASTIC) TO SILT (NON-PLASTIC)</th>
<th>SAND</th>
<th>GRAVEL</th>
<th>COBBLES</th>
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<tbody>
<tr>
<td></td>
<td>FINE</td>
<td>MEDIUM</td>
<td>COARSE</td>
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<td></td>
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</table>

**NOTES:**

BH-1@ 15.0 FEET; MODERATE BROWN GRAVELLY SAND (SP)

**GRADATION TEST**

**PLATE 15**

---

**SIEVE ANALYSIS**

**PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT**

1980-2010 BURBANK AVENUE

SANTA ROSA, CALIFORNIA

---

Project No: 3501.01  Date: 8/17  App'd by: PJC
HYDROMETER ANALYSIS

TIME READINGS

U.S. STANDARD SERIES

CLEAR SQUARE OPENINGS

PERCENT PASSING

DIAEMETER OF PARTICLE IN MILLIMETERS

CLAY (PLASTIC) TO SILT (NON-PLASTIC)

SAND

GRAVEL

COBBLES

NOTES:

BH-1@ 25.5 FEET; MODERATE BROWN CLAYEY SAND (SC)

GRADATION TEST

PLATE 17

SIEVE ANALYSIS

PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT

1980-2010 BURBANK AVENUE

SANTA ROSA, CALIFORNIA

PJC

Project No: 3501.01

Date: 8/07

App'd by: PJC
SIEVE ANALYSIS

PROPOSED CROSSROADS RESIDENTIAL DEVELOPMENT
1980-2010 BURBANK AVENUE
SANTA ROSA, CALIFORNIA

BH-10@ 9.5 FEET; MODERATE BROWN CLAYEY SAND (SC)

PLATE 20

PJC
### RESISTANCE VALUE TEST RESULTS

Sample No. 1

![Graph showing resistance value test results]

**Sample Description:** BROWN CLAY(CH)

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<tr>
<th>Specimen</th>
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<th>B</th>
<th>C</th>
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<tr>
<td>Exudation Pressure, psi</td>
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<td>493</td>
<td>255</td>
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<tr>
<td>Expansion Dial (.0001&quot;)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Expansion Pressure, psf</td>
<td>17</td>
<td>79</td>
<td>0</td>
</tr>
<tr>
<td>Resistance Value, &quot;R&quot;</td>
<td>6</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>% Moisture at Test</td>
<td>25.1</td>
<td>23.3</td>
<td>31.2</td>
</tr>
<tr>
<td>Dry Density at Test, pcf</td>
<td>100.0</td>
<td>100.9</td>
<td>91.3</td>
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<tr>
<td>&quot;R&quot; Value at 300 psi, Exudation Pressure</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;R&quot; Value by Expansion Pressure-T.I. = Gf</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX C
REFERENCES


6. USGS Santa Rosa, California Quadrangle 7.5-Minute Topographic Map, photo-revised 1980.


