October 13, 2017

Justin Witt
Brelje & Race Consulting Engineers
475 Aviation Boulevard, Suite 120
Santa Rosa, California 95403

Dear Mr. Witt:

This report describes an archival level cultural resources study for the Los Alamos Trunk Sewer Replacement Project, Phases 2, 3, and 4 in Santa Rosa, Sonoma County, California. The study area includes the new proposed alignment of the Los Alamos Trunk Sewer, as well as all ⅛ of a mile on either side of the alignment. This study was requested and authorized by the Justin Witt of Brelje & Race Consulting Engineers, on behalf of the City of Santa Rosa, and was designed to satisfy requirements of the California Environmental Quality Act.

**Study Location and Description**

The study area consists of 10,500 feet of the Los Alamos Trunk Sewer, as well as ⅛ of a mile on either side of the sewer line. The study area was defined as such so that all areas that could include minor modification to the sewer route, staging area locations, and access road locations would be included in this review.

**Environmental Setting**

The study area is situated near the northern foot of the Sonoma Mountains in central Sonoma County, roughly 3.25 miles northeast of downtown Santa Rosa. The study area ranges in elevation from 275 feet at the western end to 350 feet at its eastern end and is marked by generally level to gently sloping land. Native vegetation in this portion of the county is primarily grasslands and open woodlands typical of Northern Oak Woodland plant communities (Munz and Keck 1968:16 and 17).

The majority of the geology of the study area lies on undivided alluvial deposits that were formed between 1.294 million years ago and the present. A few, small segments of the proposed trunk sewer alignment lie on a geologic formation that dates to the Pliocene epoch (2.58-5.33 million years ago) (McLaughlin *et al.* 2008).

Soils within the study area are comprised of Clear Lake, Haire, Manzanita, Pleasanton, Riverwash, and Yolo soils (Miller 1972:Sheets 75 and 82). Riverwash consists of recently deposited gravel, sand, and silt alluvium along streams (Miller 1972:73). The soils located within the study area are soils typically found along alluvial fans, and floodplains, or on adjacent terraces. In a natural state these soils support the growth of annual and perennial grasses, forbs, shrubs, wild berry vines, and scattered oaks. (Miller 1972:22, 41, 61, 67, 87-88).
The study area includes Santa Rosa and Oakmont creeks, with the actual proposed trunk sewer alignment crossing Santa Rosa Creek twice and Oakmont Creek once.

**Archival Research Results from the NWIC**

A search of the archaeological base maps at the NWIC found that approximately 50 percent of the study area has been subjected to prior cultural resources surveys (see Table 1 and Materials Consulted for citations).

These studies resulted in the finding and recording of 26 historical resources within the study area (see Table 2). Many of the recorded historical resources are located within the proposed route of the trunk sewer line. They consist of prehistoric Native American sites. Table 2 lists the resources recorded within the study area and their distance from the proposed route.

There is one local, state, or federally recognized historic property within the study area (OHP 2012; State of California Department of Parks and Recreation 1976). This property is located at 5910 Channel Drive (HR# 5402-0260-000). It is listed as the Mendel Lee and Adelaide Cohn House and has a status code 3S which means that the building appears eligible for National Register or California Register through survey evaluation. Review of Caltrans' Historic Bridge Survey showed that none of the bridges within the vicinity of the study area meet criteria for inclusion on the National Register (Caltrans 2017).

**Archival Research on Ethnographic Data**

At the time of European settlement, the study area was included in the territory controlled by the Southern Pomo (Barrett 1908; McLendon and Oswalt 1978). The Pomo were hunter-gatherers who lived in rich environments 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 fresh water 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), Kniffen (1939), and Stewart (1943).

There are no ethnographic villages within a mile of the study area (Barrett 1908; Kroeber 1925).

**Archival Research on Historical Map Data**

The study area lies partially within the Rancho Cabeza de Santa Rosa and partially within the Los Guílicos land grant. The Rancho Cabeza de Santa Rosa was an 8,885-acre grant made to María Ignacia López de Carrillo, the mother-in-law of General Mariano Vallejo. Traveling from San Diego in 1837, she brought seven of her children to settle on the rancho and built the first European dwelling in the Santa Rosa area (Hoover et al. 1990:479-480). After Señora Carrillo’s death in 1849, the rancho was divided amongst seven claimants. The Los Guílicos land grant was granted 18,834 acres to John Wilson in 1837 (Cowan 1977:39). Wilson never lived on the grant and years later began selling portions of the grant to various settlers.

A review of 19th and 20th century maps shows buildings in the vicinity of the study area as early as 1877 (Bell and Heymans 1888; Bowers 1867; Drury 1896; GLO 1859a 1859b; McIntire and Lewis 1908; Peugh 1934; Reynolds and Proctor 1898; Thompson 1877; USACE 1944; USGS 1916, 1954a, 1954b, 1968, 1973, 1980, 1994, 2017). As the city of Santa Rosa grew, more and more settlers began occupying
the land just outside the former city limits. Review of current aerial photos shows that there are no buildings within the proposed alignment for phases 2, 3, and 4.

**Recommendations**

This record search included review and analysis of various environmental and cultural factors, including soil surveys, geological data, and the locations of known archaeological sites. The study area lies within the Rincon Valley. The presence of fresh water sources and well-drained soils that could have supported a variety of plants that in turn could have served as food and cover for animals, suggests that the study area would have been a desirable place for prehistoric occupants of the region to live and gather resources. Several prehistoric archaeological sites have been documented within and in close proximity to the proposed trunk sewer route. The likelihood of finding additional prehistoric sites along the portions of the study area that have not been previously surveyed is very high.

Archival research showed that 26 previously recorded historical resources have been recorded within the study area. Five of these 26 resources appear to lie within the currently proposed trunk sewer alignment. The majority of the sites are prehistoric Native American sites, suggesting the area was a highly desirable place to live and is archaeologically sensitive. Since only portions of each of the phases have been subjected to an historical resources survey, there is a high potential for additional resources to be found within the proposed trunk sewer route.

We recommend that the proposed alignment of phases 2, 3, and 4, be subjected to an historical resources study to identify any additional historical resources, and to examine previously recorded historical resources. This study should be overseen by an archaeologist who meets the Secretary of the Interior's Standards. The study(ies) should include 1) a records search at the Northwest Information Center, 2) contact with the Native American community, 3) field survey of the proposed trunk sewer route, 4) documentation of an historical resources found on appropriate DPR523 forms, and 5) a written report of findings that should be submitted to the Northwest Information Center. Study of phases 2, 3, and 4 should be conducted as early in the planning process as possible to ensure there are no delays to the project due to additional work that may be required as a result of the presence of historical resources within the study area.

In addition, an analysis of the potential for buried historical resources should be conducted for each phase as part of the historical resources study to determine the sensitivity for each phase, and some subsurface work should be conducted to determine if buried resources are present. Based on review of geological maps and soil surveys, and based on the trunk sewer's proximity to freshwater sources, there is the potential for there to be buried historical resources along phases 2, 3, and 4.

If an historical resource(s) is identified that would be impacted by proposed project activities, then the project should be redesigned to avoid effecting the resource. If an historical resource(s) cannot be avoided by proposed project activities then the resource will need to be evaluated for its eligibility for inclusion on the California Register of Historical Resources and appropriate mitigation of impacts must be developed.

Please let me know if you have any questions about our letter report or need additional information.

Sincerely,

Eileen Barrow
Senior Associate
Table 1. Previous Surveys conducted within the Study Area

<table>
<thead>
<tr>
<th>NWIC #</th>
<th>Report Title</th>
<th>Author</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>No #</td>
<td>Archaeological Investigations at CA-SON-20B, Santa Rosa, Sonoma County, California.</td>
<td>Schroder, S.A.</td>
<td>1988</td>
</tr>
<tr>
<td>No #</td>
<td>A Cultural Resources Survey of the La Cantera Test Well Location, Montgomery Drive, Santa Rosa, Sonoma County, California.</td>
<td>Beard, V.</td>
<td>2010</td>
</tr>
<tr>
<td>No #</td>
<td>Archaeological Investigations for the Spring Lake Village Expansion and Annexation Project, Santa Rosa, Sonoma County, California.</td>
<td>Barrow, E. and T. Origer</td>
<td>2013</td>
</tr>
<tr>
<td>No #</td>
<td>Historical Resources Study for the Spring Lake Village East Grove Project, Santa Rosa, Sonoma County, California.</td>
<td>Franco, J. and E. Barrow</td>
<td>2017</td>
</tr>
<tr>
<td>No #</td>
<td>Historical Resources Study for Phase 1 of the Los Alamos Trunk Sewer Replacement Project, Santa Rosa, Sonoma County, California.</td>
<td>Barrow, E.</td>
<td>2017</td>
</tr>
<tr>
<td>2</td>
<td>Archaeological Resources Along Route 12, East of Santa Rosa: An Impact Evaluation (Ref. 4-Son-12, W.A. 424620)</td>
<td>Moratto, M.</td>
<td>1973</td>
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<tr>
<td>441</td>
<td>An Archaeological Survey of the Lindsay Property on Melita Road, Santa Rosa, California.</td>
<td>Origer, T.</td>
<td>1977</td>
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<tr>
<td>484</td>
<td>An Archaeological Survey of the C.V. Cooper Parcel South of Melita Road, Santa Rosa, California.</td>
<td>Origer, T.</td>
<td>1977</td>
</tr>
<tr>
<td>1331</td>
<td>An Archaeological Survey of the Santa Rosa Bible Church Property, Santa Rosa, California.</td>
<td>Baldrica, M. and D. Fredrickson</td>
<td>1978</td>
</tr>
<tr>
<td>1430</td>
<td>An Archaeological Site Evaluation of CA-SON-20 at the Proposed Construction Site for the Santa Rosa Bible Church, Santa Rosa, California: Final Report</td>
<td>Hayes, J. and D. Fredrickson</td>
<td>1979</td>
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<tr>
<td>1914</td>
<td>An Archaeological Investigation of the Folio Gardens Property.</td>
<td>Carpenter, N. and D. Fredrickson</td>
<td>1980</td>
</tr>
<tr>
<td>1942</td>
<td>An Archaeological Survey of the McIntosh Property, Persimmon Acres, Santa Rosa, Sonoma County, California.</td>
<td>Keter, T. and D. Fredrickson</td>
<td>1980</td>
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<tr>
<td>2037</td>
<td>An Archaeological Investigation of the Five Acre Sisikin Property, File No. 791030, Sonoma County, California.</td>
<td>Roscoe, J. and D. Fredrickson</td>
<td>1980</td>
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<tr>
<td>2595</td>
<td>An Archaeological Study for Northeast Santa Rosa Annexation 2-80/General Plan Amendment 80-7, Santa Rosa, Sonoma County, California.</td>
<td>Origer, T. and D. Fredrickson</td>
<td>1981</td>
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<tr>
<td>2781</td>
<td>An Archaeological Study of the 1.64-acre Otterlee Property situated on Santa Rosa Creek in Santa Rosa, Sonoma County, California.</td>
<td>Melero, R. and D. Fredrickson</td>
<td>1981</td>
</tr>
<tr>
<td>2836</td>
<td>An Archaeological Study of CA-SON-1269, a Prehistoric Site on Santa Rosa Creek.</td>
<td>Roscoe, J. and D. Fredrickson</td>
<td>1981</td>
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<td>2870</td>
<td>Archaeological Investigations at CA-SON-20, Santa Rosa, Sonoma County, California.</td>
<td>Wickstrom, B. and D. Fredrickson</td>
<td>1982</td>
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<tr>
<td>5046</td>
<td>An Archaeological Investigation of a 13-Acre Parcel at 5619 Sonoma Highway, Santa Rosa, Sonoma County, California.</td>
<td>Toso, J. and D. Fredrickson</td>
<td>1982</td>
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<tr>
<td>6754</td>
<td>An Archaeological Reconnaissance of a Small Parcel at 5435 Montgomery Drive, Sonoma County, California.</td>
<td>Origer, T.</td>
<td>1984</td>
</tr>
<tr>
<td>6981</td>
<td>An Archaeological Reconnaissance for the Proposed Calistoga Road Extension to Montgomery Drive, Santa Rosa, Sonoma County, California.</td>
<td>Origer, T.</td>
<td>1985</td>
</tr>
<tr>
<td>8140</td>
<td>Archaeological Survey Report for Proposed Widening and Bike Lane Construction at 04-Son-12 P.M. 21.4/23.1 04225-113550 and 04-Son-12 P.M. 23.1/25.6 04225-103750.</td>
<td>Fitzgerald, R.</td>
<td>1986</td>
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<td>9349</td>
<td>An Archaeological Investigation of 7.11 Acres Located at 5490 Sonoma Highway, Santa Rosa, Sonoma County, California.</td>
<td>Bieling, D. and D. Fredrickson</td>
<td>1987</td>
</tr>
<tr>
<td>9454</td>
<td>An Archaeological Investigation of Two Parcels (A.P.N. 031-240-46, -47), located at 5012 and 5018 Sonoma Highway, Santa Rosa, Sonoma County, California.</td>
<td>Villemaire, A. and D. Fredrickson</td>
<td>1987</td>
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<tr>
<td>10259</td>
<td>An Archaeological Survey of Approximately Four Acres Situated along Melita Road, Santa Rosa, Sonoma County, California.</td>
<td>Origer, T.</td>
<td>1988</td>
</tr>
<tr>
<td>11564</td>
<td>An Archaeological Study of the 17-acre Pedrazzini Property at 5441-5443 Melita Road, Santa Rosa, Sonoma County, California.</td>
<td>Haney, J. and D. Fredrickson</td>
<td>1990</td>
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<tr>
<td>13232</td>
<td>An Archaeological Survey of the Mattson Property at 5184 Sonoma Highway, Santa Rosa, Sonoma County, California.</td>
<td>Origer, T.</td>
<td>1991</td>
</tr>
<tr>
<td>15202</td>
<td>Cultural Resources Inventory of Annadel State Park, Sonoma County, California Volume I</td>
<td>Whatford, J. and A. Praetzellis</td>
<td>1993</td>
</tr>
<tr>
<td>15303</td>
<td>Historic Evaluation and Documentation Emilio Silvestri Chicken House, 5643 Melita Road, Santa Rosa, CA 94505 Assessor Parcel Number: 031-110-41</td>
<td>Clark, S.</td>
<td>1993</td>
</tr>
<tr>
<td>16551</td>
<td>An Archaeological Study of the Lands of Streutzer on Melita Road, Santa Rosa, Sonoma County, California.</td>
<td>Compas, L. and A. Praetzellis</td>
<td>1994</td>
</tr>
<tr>
<td>16552</td>
<td>An Archaeological Study of the Lands of Helbakos at 6085 Melita Road, Santa Rosa, Sonoma County, California.</td>
<td>Compas, L. and A. Praetzellis</td>
<td>1994</td>
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<tr>
<td>17460</td>
<td>Topography and Geology of SON-24 with Sketch Maps.</td>
<td>Hahn, F.</td>
<td>1970</td>
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<td>18461</td>
<td>Letter report regarding APN 031-090-34</td>
<td>Compas, L.</td>
<td>1996</td>
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<td>19036</td>
<td>A Cultural Resources Evaluation of the Austin Creek Village, 5151 and 5165 Sonoma Highway, Santa Rosa, Sonoma County, CA.</td>
<td>Morre, G.</td>
<td>1996</td>
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<tr>
<td>19043</td>
<td>A Cultural Resources Evaluation of the Spring Meadow Subdivision, Santa Rosa, Sonoma County, California.</td>
<td>Morre, G.</td>
<td>1996</td>
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<tr>
<td>22534</td>
<td>A Cultural Resources Survey for the Channel Drive Sewer Replacement Project, Santa Rosa, Sonoma County, California.</td>
<td>Beard, V.</td>
<td>2000</td>
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<tr>
<td>22281</td>
<td>A Cultural Resources Study of 5394 Sonoma Highway (APN 031-120-043) Santa Rosa, Sonoma County, California.</td>
<td>Anthropological Studies Center</td>
<td>1999</td>
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<td>25055</td>
<td>A Cultural Resources Evaluation of the Lands of Mattson, 5184 Sonoma Highway, Lots 38 and 39, Santa Rosa, Sonoma County, CA.</td>
<td>Flynn, K.</td>
<td>2001</td>
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<td>27686</td>
<td>A Cultural Resources Study of the Proposed Melita Court Subdivision, 5490 Highway 12, Santa Rosa, Sonoma County, California.</td>
<td>Eastman, B., S. Psota, and A. Praetzellis</td>
<td>2003</td>
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<td>29190</td>
<td>A Cultural Resources Survey for the Oakmont Sewer Outfall Project, Santa Rosa, Sonoma County, California.</td>
<td>Quinn, J. and V. Beard</td>
<td>2004</td>
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<td>29430</td>
<td>A Cultural Resources Study of Approximately 5.23 Acres at 5171 and 5173 Sonoma Highway, Santa Rosa, Sonoma County, California.</td>
<td>Rhoades, R. and A. Praetzellis</td>
<td>2004</td>
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<td>29809</td>
<td>A Cultural Resources Survey for the Property at 5773 Melita Road, Santa Rosa, Sonoma County, California.</td>
<td>Quinn, J. and V. Beard</td>
<td>2004</td>
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<td>29810</td>
<td>A Cultural Resources Survey for the Property at 5815 Melita Road, Santa Rosa, Sonoma County, California.</td>
<td>Quinn, J. and V. Beard</td>
<td>2004</td>
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<tr>
<td>30041</td>
<td>Request for SHPO Review of FCC Undertaking: SSUSA Pickett's Nursery / SF-13240A.</td>
<td>Thal, S.</td>
<td>2005</td>
</tr>
<tr>
<td>30969</td>
<td>A Cultural Resources Survey for the Calistoga Village Project, Santa Rosa, Sonoma County, California.</td>
<td>Origer, T.</td>
<td>2005</td>
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<td>31366</td>
<td>5171-5173 Sonoma Hwy. Santa Rosa, California.</td>
<td>Painter Preservation &amp; Planning</td>
<td>2004</td>
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<tr>
<td>33967</td>
<td>A Cultural Resources Survey for the Spring Lake Village Extension Project, Santa Rosa, Sonoma County, California.</td>
<td>Steen, E. and T. Origer</td>
<td>2007</td>
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<tr>
<td>34326</td>
<td>A Cultural Resources Survey of the Properties at 225 and 227 Indian</td>
<td>Ledeubehr, S. and T. Origer</td>
<td>2007</td>
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</table>
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Table 2. Resources Identified through Archival Research at the NWIC

<table>
<thead>
<tr>
<th>Site Designation</th>
<th>Site Description</th>
<th>Proximity to Trunk Sewer</th>
<th>Citation</th>
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<tr>
<td>P-49-000034</td>
<td>Wymore Quarry Complex</td>
<td>305 feet</td>
<td>Rubeiro 1993</td>
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<td>P-49-000035</td>
<td>Cobblestone Quarry Complex</td>
<td>485 feet</td>
<td>Whatford 1993</td>
</tr>
<tr>
<td>P-49-000079</td>
<td>Lithic scatter</td>
<td>Within</td>
<td>Tom Origer &amp; Associates 2013a</td>
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<tr>
<td>P-49-000081</td>
<td>Midden</td>
<td>Immediately adjacent, likely extends within.</td>
<td>Halladay 1956</td>
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<td>P-49-000819</td>
<td>Midden</td>
<td>Immediately adjacent, possibly extends within.</td>
<td>Upson 1965</td>
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<td>P-49-001191</td>
<td>Midden/lithic scatter</td>
<td>Within</td>
<td>Carpenter 1980</td>
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<td>P-49-001192</td>
<td>Lithic scatter</td>
<td>Immediately adjacent, likely extends within.</td>
<td>Franco 2017</td>
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<td>P-49-001293</td>
<td>House</td>
<td>335 feet</td>
<td>McGuire 1981</td>
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<td>P-49-001322</td>
<td>Lithic scatter</td>
<td>470 feet</td>
<td>Whatford 1989</td>
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<td>P-49-001432</td>
<td>Midden</td>
<td>450 feet</td>
<td>Villemaire 1986</td>
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<td>P-49-001472</td>
<td>Lithic scatter</td>
<td>Within</td>
<td>Whatford 1987</td>
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<td>P-49-001510</td>
<td>Segment of the Southern Pacific Railroad</td>
<td>360 feet</td>
<td>Whatford 1991</td>
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<td>P-49-001553</td>
<td>Lithic scatter</td>
<td>Within</td>
<td>Origer and Loyd 1991</td>
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<td>P-49-001760</td>
<td>Emilio Silvestri Chickenhouse</td>
<td>350 feet</td>
<td>Clark 1993</td>
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<td>P-49-001981</td>
<td>Prehistoric Site Peters #7</td>
<td>Within</td>
<td>NWIC Base Maps</td>
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<td>P-49-001992</td>
<td>Midden</td>
<td>Immediately adjacent, possibly extends within.</td>
<td>Compas 1996</td>
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<td>P-49-002263</td>
<td>Lithic scatter</td>
<td>200 feet</td>
<td>Whatford 1988a</td>
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<td>P-49-002264</td>
<td>Lithic scatter</td>
<td>Immediately adjacent, likely extends within.</td>
<td>Whatford 1988b</td>
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<td>P-49-002499</td>
<td>Quarrying remains</td>
<td>525 feet</td>
<td>Whatford 1993</td>
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<td>P-49-003113</td>
<td>Floyd Gallo Residence</td>
<td>615 feet</td>
<td>Eastman 2003</td>
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<td>P-49-003224</td>
<td>Prickett's Nursery</td>
<td>530 feet</td>
<td>Rhoades 2004</td>
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<td>P-49-004130</td>
<td>5150 Sonoma Highway</td>
<td>250 feet</td>
<td>Beard 2009</td>
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<td>P-49-004517</td>
<td>Lithic scatter</td>
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<td>Tom Origer &amp; Associates 2013b</td>
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<td>P-49-004518</td>
<td>Lithic scatter</td>
<td>Within</td>
<td>Tom Origer &amp; Associates 2013c</td>
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<tr>
<td>P-49-004728</td>
<td>Violetti Road Quarry</td>
<td>425 feet</td>
<td>Blake and Gmoser 2014</td>
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<tr>
<td>No #</td>
<td>5803 Melita Road</td>
<td>35 feet</td>
<td>Franco, J.</td>
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</tbody>
</table>
Materials Consulted

Anthropological Studies Center
1999  A Cultural Resources Study of 5394 Sonoma Highway (APN 031-120-043), Santa Rosa, Sonoma County, California. Document S-22281 on file at the Northwest Information Center, Sonoma State University, Rohnert Park.

Baldrica, M. and D. Fredrickson
1978  An Archaeological Survey of the Santa Rosa Bible Church Property, Santa Rosa, California. Document S-1331 on file at the Northwest Information Center, Sonoma State University, Rohnert Park.

Barrett, S.

Barrow, E.
2017  Historical Resources Study for Phase 1 of the Los Alamos Trunk Sewer Replacement Project, Santa Rosa, Sonoma County, California. Document on file at the offices of Tom Origer & Associates, awaiting submittal to the Northwest Information Center, Sonoma State University.

Barrow, E. and T. Origer
2013  Archaeological Investigations for the Spring Lake Village Expansion and Annexation Project, Santa Rosa, Sonoma County, California. Document on file at the Northwest Information Center, Sonoma State University.

Bean, L. and D. Theodoratus

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2000  A Cultural Resources Survey for the Channel Drive Sewer Replacement Project, Santa Rosa, Sonoma County, California. Document S-22534 on file at the Northwest Information Center, Sonoma State University, Rohnert Park.

2009  Historical Evaluation of the House at 5150 Sonoma Highway, Santa Rosa, Sonoma County, California. Document S-36257 on file at the Northwest Information Center, Sonoma State University, Rohnert Park.

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2009  Primary Record for P-49-004130. Document on file at the Northwest Information Center, Sonoma State University.
Beard, V., T. Stevens, and D. Fredrickson

Bell and Heymans
1888  *Map of Sonoma County, California.* Bell and Heymans, San Francisco.

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1987  *An Archaeological Investigation of 7.11 Acres Located at 5490 Sonoma Highway, Santa Rosa, Sonoma County, California.* Document S-9349 on file at the Northwest Information Center, Sonoma State University, Rohnert Park.

Blake, J. and G. Gmoser
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