



VETERANS HOME OF CALIFORNIA- YOUNTVILLE SKILLED NURSING FACILITY PROJECT



DRAFT ENVIRONMENTAL IMPACT REPORT/ENVIRONMENTAL ASSESSMENT
APPENDICES

MARCH 2020

Veterans Home of California Yountville Skilled Nursing Facility

Draft Environmental Impact Report/ Environmental Assessment

SCH No. 2019039077

Appendices

March 2020

CEQA Lead Agency:



**California Department of
Veterans Affairs**

NEPA Lead Agency:



**U.S. Department of
Veterans Affairs**

Prepared For:



**California Department of
General Services**

Prepared By:



MIG, Inc.

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**Veterans Home of California
Yountville Skilled Nursing Facility**

**Draft Environmental Impact Report/
Environmental Assessment**

SCH No. 2019039077

Appendices

March 2020

Prepared for:

California Department of General Services
Real Estate Services Division
707 3rd Street, Fourth Floor
Sacramento, CA 95606

On Behalf of:

California Department of Veteran Affairs
1227 O Street
Sacramento, CA 95814

Prepared by:

MIG, Inc.
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San Jose, CA 95131
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LIST OF APPENDICES

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Veterans Home of California
Yountville Skilled Nursing Facility Project

Appendix A: Notice of Preparation and
Public Scoping Comments

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DEPARTMENT OF VETERANS AFFAIRS

1227 O Street
Sacramento, California 95814
Telephone: (800) 952-5626
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***NOTICE OF PREPARATION /
NOTICE OF PUBLIC SCOPING MEETING
CALIFORNIA YOUNTVILLE SKILLED NURSING FACILITY***

To: California State Clearinghouse, state Responsible and Trustee Agencies, federal agencies, local jurisdictions, and Interested Parties

Date: March 15, 2019

From: Terry Ash, Senior Environmental Planner
Department of General Services, Real Estate Division, Project Management and Development Branch, Environmental Services

Subject: **Notice of Preparation of an Environmental Impact Report and Public Scoping Meeting for the California Department of Veterans Affairs Yountville Veterans Home Skilled Nursing Facility**

The California Department of Veterans Affairs (CalVet), with the assistance from the Department of General Services Real Estate Services Division (DGS), is the lead agency responsible for the preparation of an Environmental Impact Report (EIR) under the California Environmental Quality Act (CEQA) for the California Department of Veterans Affairs Yountville Skilled Nursing Home ("yvhnsnf" or "proposed project") described below. The proposed project will receive federal funding, therefore, a joint CEQA and National Environmental Policy Act (CEQA/NEPA) document will be prepared. The document will consist of an EIR in satisfaction of CEQA, and an Environmental Assessment (EA) in satisfaction of NEPA. The U.S. Department of Veterans Affairs (USDVA) is acting as lead agency in accordance with the requirements of NEPA.

We need to know the view of your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project. Your agency will need to use the EIR or EA when considering your permit or other approval for the project. The project description, location, and the potential environmental effects are contained in the attached materials. A copy of the EIR is not attached. Due to time limits mandated by state law, your response must be sent at the earliest possible date but not later than 30 days after receipt of this Notice.

Pursuant to the public participation goals of CEQA, DGS in coordination with CalVet, will host a Public Scoping Meeting to gather additional input on the content and focus of the environmental analysis to be conducted and presented in the EIR/EA. Interested parties, including agencies, are encouraged to attend the meeting to learn more about the proposed project and the environmental review process, to express any concerns about the proposed project, and offer suggestions regarding the environmental impacts, including any mitigation measures and alternatives. The date, time and location of the scoping meeting are listed below.

Date: March 28

Time: 3-4 PM and 6-7 PM

Location: Yountville Veterans Home, Member Services Building, Grant Hall
170 California Avenue, Yountville, CA 94599

Please send all comments via mail to:

Ms. Terry Ash, Senior Environmental Planner
California Department of General Services
Real Estate Division, Project Management and Development
2635 North 1st Street, Ste. 149, San Jose, CA 95134

or via email to:

comments@yvhsnfproject.com
(enter “YVHSNF Project NOP Scoping Comments” in the ‘Subject’ line).

Agency responses should include the name of a contact person at the agency.

The CalVet and the USDVA encourage all interested agency representatives, organizations, and individuals to attend the public scoping meeting for the Project’s Draft EIR/EA.

CALIFORNIA DEPARTMENT OF VETERAN'S AFFAIRS

YOUNTVILLE VETERANS HOME SKILLED NURSING FACILITY

PROJECT DESCRIPTION

The California Department of Veterans Affairs (CalVet) operates the approximately 615-acre Yountville Veterans Home Campus in Yountville, Napa County, California. The historic campus, established in 1884, is the State's oldest and largest facility of its kind. The historic district within the Veterans Home property is both a state and federal historic resource. The campus is surrounded by hundreds of acres of largely rural land with limited development, as well as the nearby Town of Yountville. The campus offers amenities that include Veterans' housing and care facilities as well as cultural and recreation opportunities. CalVet and USDVA are proposing to construct an approximately 240-bed skilled nursing facility (SNF) that includes: kitchens, dining rooms, exam rooms, nurses' stations, laundry facilities, perimeter fencing, resident outdoor spaces, parking, roadways, an emergency generator, and other potential site improvements. Existing skilled nursing beds at the Veterans Home are provided in the Holderman, Roosevelt, and Eisenhower buildings.

The proposed project site is located in the southwest corner of the Veterans Home property. The project design of the proposed SNF is currently undetermined. However, it is anticipated the structure(s) would total approximately 285,000 square feet and require an estimated 80 to 100 new staff, in addition to the approximately 950 staff who currently work on site. Project construction could require demolition and possible hazards material abatement of existing structures including Jefferson Hall, Nurses Education Building (Safety Operations), Hostess House, and Bandstand and the adjacent landscape. Polk building will not be demolished. Utility infrastructure improvements would also be required. Project construction is anticipated to begin in 2021.

Project Location and Site Description

The Yountville Veterans Home Campus is approximately seven (7) miles north-northwest of Napa and is located in the southwestern portion of Yountville (see Figure 1). Access to the campus is provided via Highway 29, St. Helena Highway, and California Drive. Vinters Golf Club, part of the campus, is located on the eastern side of the property (see Figure 2).

The campus comprises over 128 structures totaling approximately. The proposed SNF would be located on approximately nine (9) acres west of Holderman on the western portion of the property. The location of potential utility improvements is still undetermined.

Alternatives

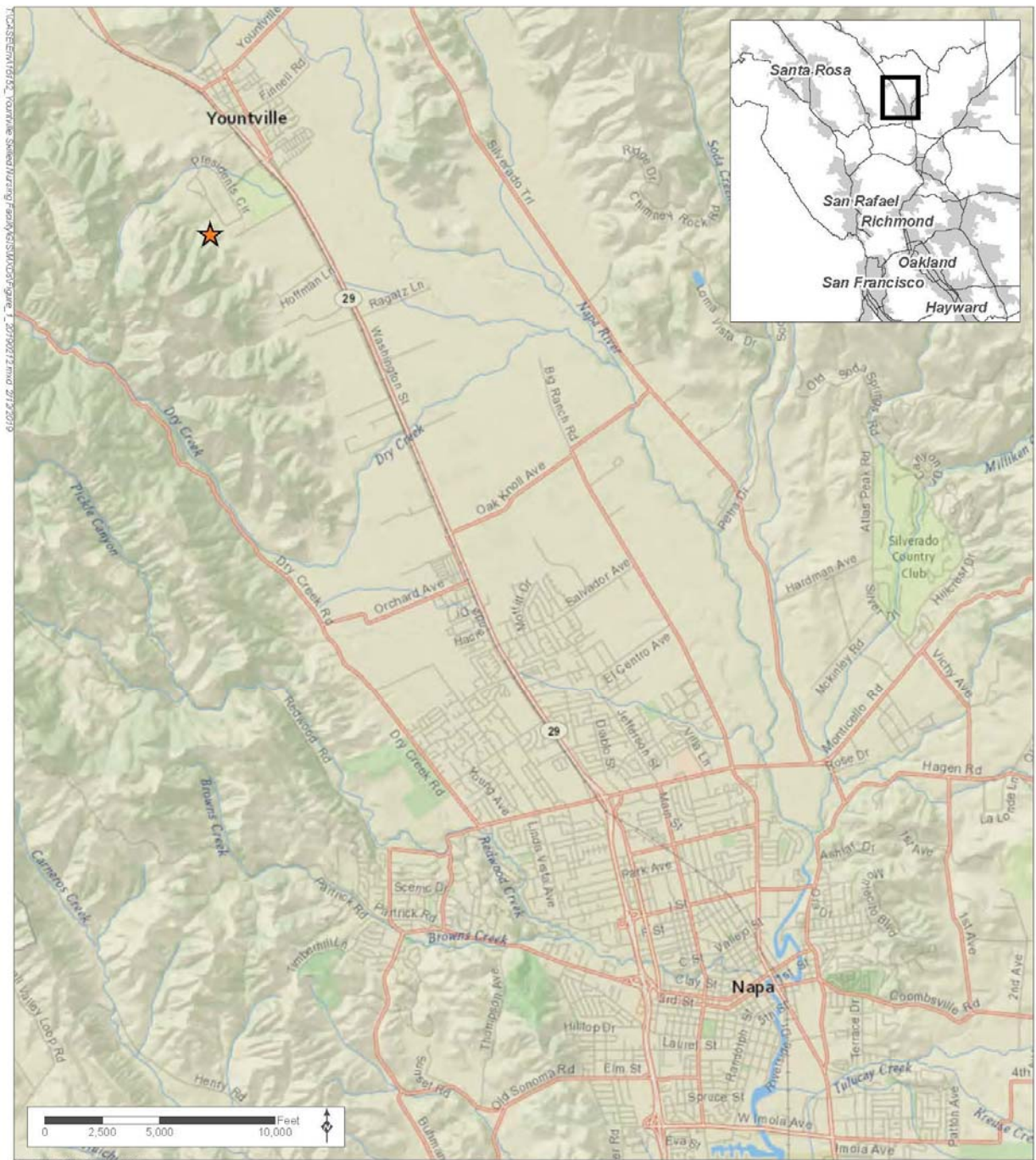
The EIR/EA will examine a reasonable range of alternatives to the proposed project. The alternatives will be defined based on the EIR/EA analysis, public scoping meeting, and comments received on the NOP. A detailed description of the impacts of the proposed project and each alternative will be included in the EIR/EA. Several alternatives will be considered and analyzed, representing varying levels of program operations and impacts. A No Project/No Action alternative will be included in the analysis of the alternatives considered.

Probable Environmental Effects

The Yountville Skilled Nursing Facility Project site is located on the western side of the Yountville Veterans Home Campus, an area that is wooded, has hard bedrock, and is developed with structures and memorial gardens. As such, the EIR/EA is expected to address potential environmental effects

in the following resource areas: aesthetics, air quality, biological resources, cultural and historic resources, energy, geology/soils, greenhouse gases, hazards/hazardous materials, hydrology/water quality, land use, noise, population/housing, transportation, utilities, and wildfire.

Several areas of potential concern are likely to be found less than significant given the type of project or the absence of a resource or the nature of the project site (e.g., agriculture/forestry, mineral resources, public services, recreation, and tribal cultural resources). The final scope of impact analyses conducted for the EIR/EA will be dependent upon the outcomes of the NOP public review process.

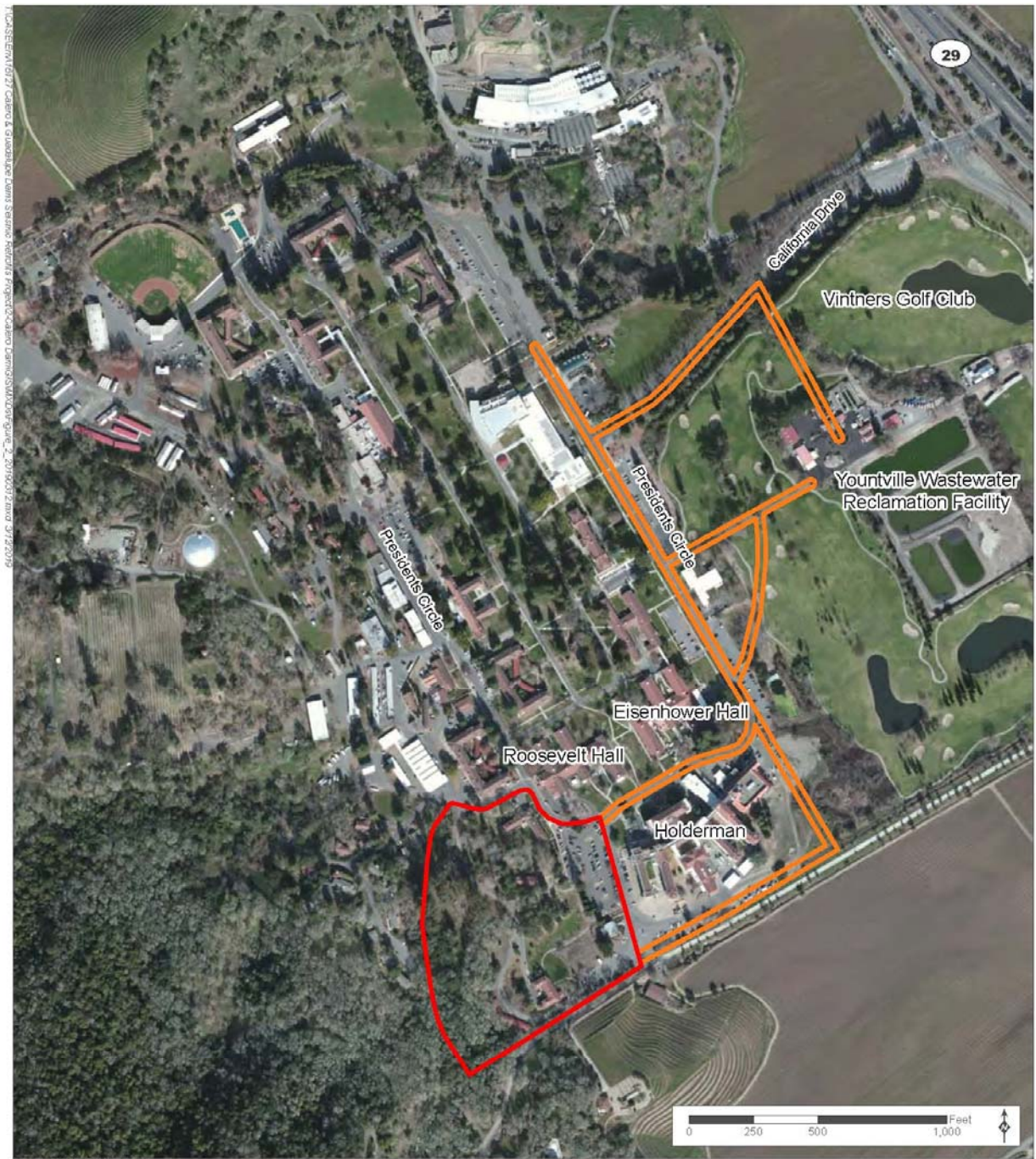


★ Project Location



Figure 1 Regional Location

Yountville Veterans Home Skilled Nursing Facility Project



Source: ESRI 2017, Mfg 2019

- Project Site
- Potential Utility Upgrade Area



Figure 2 Project Area

Yountville Veterans Home Skilled Nursing Facility Project

Written Comments on the NOP

- **California Department of Fish and Wildlife**
- **Petition from the residents of Jefferson Hall and Polk Hall**
- **Individual comment letters**

Memorandum

Date: April 11, 2019

To: Mr. Terry Ash
California Department of Veterans Affairs
Department of General Services
707 3rd Street, 4th Floor
West Sacramento, CA 95605

From: 
Mr. Gregg Erickson, Regional Manager
California Department of Fish and Wildlife-Bay Delta Region, 2825 Cordelia Road, Suite 100, Fairfield, CA 94534

Subject: Yountville Skilled Nursing Facility, Notice of Preparation of a Draft Environmental Impact Report, SCH #2019039077, Town of Yountville, Napa County

The California Department of Fish and Wildlife (CDFW) reviewed the Notice of Preparation (NOP) of a draft Environmental Impact Report (EIR) provided for the Yountville Skilled Nursing Facility (Project) located at Presidents Circle and California Drive, Town of Yountville, Napa County. The NOP was received in our office on March 18, 2019.

CDFW is a Trustee Agency with responsibility under the California Environmental Quality Act (CEQA) §15386 for commenting on projects that could impact fish, plant and wildlife resources. CDFW is also considered a Responsible Agency if a project would require discretionary approval, such as the California Endangered Species Act (CESA) Permit, the Native Plant Protection Act, the Lake and Streambed Alteration Agreement (LSAA) and other provisions of the Fish and Game Code that afford protection to the State's fish and wildlife trust resources. Pursuant to our jurisdiction, CDFW has the following concerns, comments, and recommendations regarding the Project.

PROJECT DESCRIPTION AND LOCATION

The Project includes construction of multiple structures over an approximately 285,000-square foot area for a skilled nursing facility in the southwest corner of Yountville Veterans Home property along with utility infrastructure improvements. The Project site currently consists of previously developed structures, landscaped gardens, wooded habitat to the west and an intermittent tributary to Hopper Creek along the southern border. Project construction may require demolition of standing buildings and increased development footprint replacing woodland habitat. Upon completion, the new facility anticipates requiring 100 new staff.

The CEQA Guidelines (§§15124 and 15378) require that the draft EIR incorporate a full project description, including reasonably foreseeable future phases of the project, and that contains sufficient information to evaluate and review the project's environmental impact. Please include a complete description of the following Project components in the Project description:

- Footprints of permanent Project features and temporarily impacted areas, such as staging areas and access routes, including construction schedule, activities, equipment and crew sizes.
- Anticipated utility upgrade areas and associated impacts from the work.
- Footprint of temporary staging areas.

- Encroachments into riparian habitats, wetlands or other sensitive areas.
- Acreage of temporary and permanent impacts to woodlands on the Project site, including the approximate size (diameter at breast height) of any trees, especially oak trees proposed for removal.
- Area and plans for any proposed buildings/structures, ground disturbing activities, fencing, paving, stationary machinery, landscaping, and storm water systems.
- Operational features of the Project, including level of anticipated human presence (describe seasonal or daily peaks in activity, if relevant), artificial lighting/light reflection, noise and greenhouse gas generation, traffic generation, and other features.

ENVIRONMENTAL SETTING

Sufficient information regarding the environmental setting is necessary to understand the Project's, and its alternative's (if applicable), significant impacts on the environment (CEQA Guidelines, §§15125 and 15360). CDFW recommends that the CEQA document prepared for the Project provide baseline habitat assessments for special-status plant, fish and wildlife species located and potentially located within the Project area and surrounding lands, including all rare, threatened, or endangered species (CEQA Guidelines, §15380). Fully protected, threatened or endangered, candidate, and other special-status species that are known to occur, or have the potential to occur in or near the Project site, include, but are not limited to:

- White-tailed kite (*Elanus leucurus*), fully protected under Fish and Game Code
- Golden eagle (*Aquila chrysaetos*), fully protected under Fish and Game Code
- Foothill yellow-legged frog (*Rana boylei*), a candidate threatened species under CESA
- Western pond turtle (*Actinemys marmorata*), CDFW species of special concern, federal Endangered Species Act (ESA)
- Greene's narrow-leaved daisy (*Erigeron greenei*) California Rare Plant Rank 1B.2, protected under CEQA §15380
- *Eryngium jepsonii*, California Rare Plant Rank 1B.2, protected under CEQA §15380
- Jepson's leptosiphon (*Leptosiphon jepsonii*) California Rare Plant Rank 1B.2, protected under CEQA §15380
- Stanford's arrowhead (*Sagittaria sanfordii*), California Rare Plant Rank 1B.2, protected under CEQA §15380
- Additional special-status plants

Habitat descriptions and species profiles should include information from multiple sources: aerial imagery, historical and recent survey data, field reconnaissance, scientific literature and reports, and findings from "positive occurrence" databases such as California Natural Diversity Database (CNDDB). Based on the data and information from the habitat assessment, the CEQA document can then adequately assess which special-status species are likely to occur in the Project vicinity.

CDFW recommends that prior to Project implementation, surveys be conducted for special-status species with potential to occur, following recommended survey protocols if available. Survey and monitoring protocols and guidelines are available at:
<https://www.wildlife.ca.gov/Conservation/Survey-Protocol>.

Botanical surveys for special-status plant species, including those listed by the California Native Plant Society (<http://www.cnps.org/cnps/rareplants/inventory/>), must be conducted during the blooming period for all sensitive plant species potentially occurring within the Project area and require the identification of reference populations. Please refer to CDFW protocols for surveying

and evaluating impacts to rare plants available at:
<https://www.wildlife.ca.gov/Conservation/Plants>.

IMPACT ANALYSIS AND MITIGATION MEASURES

The CEQA Guidelines (§15126.2) necessitate that the draft EIR discuss all direct and indirect impacts (temporary and permanent) that may occur with implementation of the Project. This includes evaluating and describing impacts such as:

- Potential for “take” of special-status species;
- Locations and acreage of encroachment into riparian habitat and other sensitive areas;
- Loss or modification of breeding, nesting, dispersal and foraging habitat, including vegetation removal, alteration of soils and hydrology, and removal of habitat structural features (e.g. snags, roosts, overhanging banks);
- Permanent and temporary habitat disturbances associated with ground disturbance, noise, lighting, reflection, air pollution, traffic or human presence; and
- Impacts to rare and special-status plant species and their habitat.

The CEQA document also should identify reasonably foreseeable future projects in the Project vicinity, disclose any cumulative impacts associated with these projects, determine the significance of each cumulative impact, and assess the significance of the project's contribution to the impact (CEQA Guidelines, §15355). Although a project's impacts may be insignificant individually, its contributions to a cumulative impact may be considerable; a contribution to a significant cumulative impact – e.g., reduction of available habitat for a listed species – should be considered cumulatively considerable without mitigation to minimize or avoid the impact.

Based on the comprehensive analysis of the direct, indirect, and cumulative impacts of the Project, the CEQA Guidelines (§§ 15021, 15063, 15071, 15126.2, 15126.4 and 15370) direct the lead agency to consider and describe all feasible mitigation measures to avoid potentially significant impacts in the draft EIR, and/or mitigate significant impacts of the Project on the environment. This includes a discussion of take avoidance and minimization measures for special-status species, which are recommended to be developed in early consultation with the U.S. Fish and Wildlife Service, the National Marine Fisheries Service and CDFW. These measures can then be incorporated as enforceable Project conditions to reduce potential impacts to biological resources to less-than-significant levels.

Fully protected species such as golden eagle and white-tailed kite may not be taken or possessed at any time (Fish and Game Code § 3511). Therefore, the draft EIR is advised to include measures to ensure complete take avoidance of these fully protected species.

Foothill Yellow Legged Frog

CDFW is concerned that the proposed Project has potential to impact foothill yellow-legged frogs (FYLF). The draft EIR should determine and quantify what the impacts are to FYLF, and then present biological measures, such as take avoidance and minimization measures, and mitigation for any impacts to potential breeding and foraging habitat, to conclude that the impacts have been mitigated to less-than-significant levels. This should include impacts to creek and floodplain habitat, and riparian vegetation.

REGULATORY REQUIREMENTS

California Endangered Species Act

Please be advised that a CESA permit must be obtained if the Project has the potential to result in “take” of plants or animals listed under CESA, either during construction or over the life of the

Project. Issuance of a CESA Permit is subject to CEQA documentation; the CEQA document must specify impacts, mitigation measures, and a mitigation monitoring and reporting program. If the Project will impact CESA listed species, early consultation is encouraged, as significant modification to the Project and mitigation measures may be required in order to obtain a CESA Permit.

CEQA requires a Mandatory Finding of Significance if a project is likely to substantially impact threatened or endangered species (CEQA §§ 21001(c), 21083, and CEQA Guidelines §§ 15380, 15064, 15065). Impacts must be avoided or mitigated to less-than-significant levels unless the CEQA Lead Agency makes and supports Findings of Overriding Consideration (FOC). The CEQA Lead Agency's FOC does not eliminate the Project proponent's obligation to comply with Fish and Game Code § 2080.

Lake and Streambed Alteration Agreement

CDFW will require an LSAA, pursuant to Fish and Game Code §§ 1600 et. seq. for Project-related activities within any 1600-jurisdictional waters within the proposed Project area. Notification is required for any activity that will substantially divert or obstruct the natural flow; change or use material from the bed, channel, or bank including associated riparian or wetland resources; or deposit or dispose of material where it may pass into a river, lake or stream. Work within ephemeral streams, washes, watercourses with a subsurface flow, and floodplains are subject to notification requirements. CDFW, as a Responsible Agency under CEQA, will consider the CEQA document for the Project. CDFW may not execute the final LSAA until it has complied with CEQA (Public Resources Code § 21000 et seq.) as the responsible agency.

FILING FEES

CDFW anticipates that the Project will have an impact on fish and/or wildlife, and assessment of filing fees is necessary (Fish and Game Code, § 711.4; Pub. Resources Code, § 21089). Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW.

If you have any questions, please contact Mr. Garrett Allen, Environmental Scientist, at (707) 428-2076 or email at garrett.allen@wildlife.ca.gov; or Karen Weiss, Senior Environmental Scientist (Supervisory), by email at karen.weiss@wildlife.ca.gov.

cc: State Clearinghouse

TO: Yountville Skilled Nursing Facility task force.

April 10, 2019

CDVA Secretary, Vito Himbazines, M.D.

Deputy Secretary, Coby Peterson

YVH Administrator, Fred Just

Senior Environmental Planner, Terry Ash

From: The 68 residents who are currently residing in Yountville, Sections "K" & "I".

These 68 "real people" are deeply concerned that these two functioning residential units would be evacuated and demolished before the CEQA and EIR reports are completed and approved.

As you are aware, these reports require incalculable time and effort and many times are not approved after years of investigation and study.

We therefore petition this "task force" and the CDVA to not evacuate or demolish these two residential units until both required reports are completed, approved and accepted.

We have also taken note of the 1st sentence of Paragraph 3 in the "Project Description"

'The EIR/EA will examine a reasonable range of alternatives to the proposed project'!

In light of that statement, We have included the description of an "alternative Project" for your consideration.

We Look forward to working together to save "The Crown Jewel" of CDVA and Napa County.

Sincerely,

The K&L Coalition

A handwritten signature in black ink, appearing to read "James W. Shum", with a long horizontal flourish extending to the right.

PETITION

To: California Department of Veterans Affairs, Administrator, Yountville Veterans Home

March 28, 2019

To oppose the **evacuation** and **demolishing** of Polk Hall, (Section"K") **Prior to the completion** and **approval** of the E.I.R. Report **necessary** for the construction of the proposed 285,000 Sq. Ft. Skilled Nursing Facility, on the Yountville Veterans Home.

<i>ROOM</i>	<i>NAME</i>
108	CORSON, DONALD
109	TOLSON, BOB
110	SMITH, HALE
111	VALLON, PAUL
114	REMNANT, NEIL
115	PATTON, WILLIAM
116	SELNESS, ALFRED
117	ROSSI, JOHN
118	GANDEL, AVRUM
126	GEEN, JAMES
127	NYEN, GARRY
128	HIGDON, CAROLYN
130	HIGDON, MALCOLM
133	CRASS, PATRICK
135	CRASS, SANDRA
136	RICHESIN, CHARLES
137	GAY, RALPH

<i>ROOM</i>	<i>NAME</i>
208	LANIEWICZ, NORM
209	BORTFELD, DAVID
210	SUTTON, ERNEST
211	FRANEK, ROBERT
214	HORAN, RICHARD
215	NUNES, JERRY
216	BENNETT, LOUIS
217	JOZWICKI, PAUL
218	HUTTON, FREDERICK
219	VACANT/DIRTY
221	MONAGHAN, RALPH
226	ALLEN, ROD
227	CLARK, RONALD
228	JOHNSON, JR., RAY
230	JOHNSON, VALA
233	DAMATO, FREDERIC
235	DAMATO, SHARON
236	CHRISTENSEN, THOMAS
237	STRATTON, GEORGE

PETITION

To: California Department of Veterans Affairs, Administrator, Yountville Veterans Home

March 28,2019

To oppose the **evacuation** and **demolishing** of Jefferson Hall, (Section "L"),

Prior to the **completion** and **approval** of the E.I.R. Report **necessary** for the construction of the proposed 285,000 Sq. Ft. Skilled Nursing Facility, on the Yountville Veterans Home.

<i>ROOM</i>	<i>NAME</i>
101	PELAYO, LORENZE
103	BROOKE, ROSINA
103	BROOKE, CLARENCE
109	CLARK, MAVIS
109	CLARK, WILLIAM
110	TRAMMELL, PATRICIA
110	TRAMMELL, RONALD
111	FONG, MARY
111	FONG, ROBERT
112	JAGER,MARY ROBBINS
112	JAGER, HERBERT
113	KOCH, THOMAS
113	KOCH, LINDA
114	COLLINS, JOAN
114	COLLINS, KENNETH

<i>ROOM</i>	<i>NAME</i>
201	KEH, PAUL
203	EVANS, GRACE
203	EVANS, RAYMOND
204	SHUPE, GERDA
204	SHUPE, JAMES
205	FORD, LYNN
205	FORD, RONALD
208	MORRIS, KIM-NHUNG
208	MORRIS, JAMES
209	YOUNG, RUTH
209	YOUNG, PAUL
210	WARREN, JACKQUELINE
210	WARREN, EDWIN
211	vacant/needs preclean
211	vacant/ needs preclean
212	TIFF, SANDRA
212	TIFF, RICHARD

POSITION PAPER ON THE VETERAN COMMUNITY IN NAPA COUNTY

MARCH 2019

PREPARED BY:

JAMES D. SHUPE

MEMBER,

NAPA COUNTY VETERANS COMMISSION

VETERANS HOME OF CALIFORNIA, YOUNTVILLE,

The purpose of this document is to describe the current circumstances prevailing in the Napa County Veterans community and to suggest methods to improve and repurpose those circumstances. It is presented to all parties who are responsible, capable and interested in building a strong, cohesive environment for the military Veterans in Napa County, using all of the existing and future resources, assets and ingenuity that are available to our community.

1. Current Conditions;

There are three Veteran agencies in place in Napa County. (Federal) U.S Veterans 'Administration, (State) California department of Veterans Affairs, and (County), Napa County Veterans Commission.

A. The Federal V.A. administration is in a complete shamble due to the political warfare in the nations' capital. The Napa County V.A. Veterans Service Officer, Pat Jolly, is undoubtedly the most senior, dedicated, and experienced VSO in the entire VA system, and has constructed the most efficient and supportive VSO in the nation, but is hamstrung by the political and disorganized leadership in D.C.

B. California Dept. of Veterans Affairs, (CDVA), Consists of (8) Veterans Homes throughout the State, (7) of those homes have been constructed since the late 1960s, and they are smaller, non- medical units, with an average capacity of 250 members, located in various communities throughout the state. The Yountville Home was founded in 1884 and has provided full hospital, skilled nursing and residential care for more than 900 veterans at any given time.

Over time, this 615 acre crown jewel has deteriorated to the extent that it is no longer a safe haven for its residents, is a financial burden to the state, and an impossible administration task for its appointed administrator.

Another **LARGE** problem for the Home is the hidebound bureaucratic management systems, in Sacramento, that have been developed around the 7 newer homes and ignore the unique and valuable requirements of the Yountville Property.

C. Napa County Veterans Commission, which was created in 2017, By the Napa County Board of Supervisors, in response to the discovery that Napa County did not have a Community Based Outpatient Clinic, (CBOC), which most other counties have, and are funded the Federal V.A. and administrated by a local civilian VSO. The reason was, the highly visible Yountville Home. The problem is, Yountville provides medical care only for its residents! There is no outpatient care for non-resident veterans in Napa County.

The primary mission of the Napa County Veterans Commission, is to establish a CBOC in Napa county.

To that end, I am requesting consideration of the following suggested plan;

1. Create a cooperative agreement between the three participating agencies to accomplish the modernization and centralization of the non-veteran service portions of the Yountville property.
 1. Design a master lease or contract agreement with a capable property management and development firm (such as Plumpjack or JCB) that all subleases (such as Lincoln Theatre & Golf course) be made with the master Lessee, therefore taking the state out of target for any Liability claims.
 2. All sublessees would pay lease payments to the Master lease holder of 10% of their gross income for the lease, (which ties the lease to market value lease rates) The master lease holder would pay 10% of their gross income to DSG to supplement the operating budget for the Veterans service sector.

3. HOSPITAL SERVICES. Hospital Services now consist of Holderman Hospital, Roosevelt Memory Center, Eisenhower Intermediate Care, Section A, Lincoln Hall, Section B, McKinley Skilled Nursing Facility. Currently, Holderman Hospital provides only minor emergency and diagnostic medical care. All other medical issues have been contracted to Queen of the Valley in Napa. An Alternate plan would be to lease all Hospital services to Queen of the Valley and restructure Holderman **to provide a wider range of services to more of the veterans of northern California, on an outpatient basis ,similar to Fort Miley in San Francisco.**

Due to the historical relationship and local proximity of The Queen of the Valley, It is the prime candidate to become the master lessee of all medical services, although there are several other health organizations that are capable of that particular function.

A general outline of a workable lease is as follows;

1. Primary lease would be for 50 years, with a lease option for an additional 50 years.
2. Lease cost would be :
 - 2a. \$1.00 per year for the entire medical complex.
 - 2b. 10% of all income generated by the entire complex.
 - 2c. adjusted by credit for all capital improvement expenditures made by lessee, on the basis of IRS depreciation guidelines.
 - 2d. Lease payments would be made to the CDVA general fund on a monthly basis.
 - 2e. Lessee would purchase utilities, Water, Sewer, electricity and steam from Plant Operations through CDVA.
3. Lessee would be responsible for all operations, maintenance, repairs, alterations and additions to the complex during the lease period.
4. Lessee would agree to expand the scope of service from the current policy of resident care only, to provide complete medical service, on an outpatient basis to all veterans in Napa County. (CBOC)

The most visible and positive results of these suggested programs would be:

1. Both leases would transform the non- resident veteran service areas from budget liabilities to income producing assets.
2. Reduce the administrative and cost responsibility by at least 50 % .
3. Provide convenient outpatient clinical care for the 11,000 other veterans in Napa county.

Yountville Skilled Nursing Facility EIR

March 28, 2019 Scoping Meeting

Comment:

Memorial Grove was first conceived in 1927 as a memorial to all battles fought by Americans by planting trees from those battlegrounds. A large number of the trees came from France, but also included other areas in Europe, the Philippines and the United States. At one point there were 117 different trees planted. Unfortunately, many of the trees have since died.

Will the remaining trees be saved and replanted somewhere else?

CALVET, Yountville

Library

Jennifer Allen, Librarian

California Department of General Services/ California Department of Veterans Affairs

Yountville Skilled Nursing Facility EIR
March 28, 2019 Scoping Meeting

CARDYN A. HIGDON

NAME

260 California Dr. Sec 1

ADDRESS

Yountville Veterans Home

Yountville, CA 94599

ORGANIZATION /AFFILIATION

ALLIED COUNCIL

WOLF DANCER 042 @ gmail.com

E-MAIL ADDRESS

Comment:

Presently - Holderman 150 pts?
new Skilled Nursing Eisenhower 75 ?
Facility 240 beds? memory care 65

→ approx - 280

Is it going to be big enough?

(Continue on back if necessary)

Thank You



California Department of General Services/ California Department of Veterans Affairs

Yountville Skilled Nursing Facility EIR
March 28, 2019 Scoping Meeting

KILLIAN MEAD
NAME

Yountville Vet Home
ADDRESS

USAF
ORGANIZATION /AFFILIATION

sierra.mead@gmail.com
E-MAIL ADDRESS

Comment: Affordable Housing staff is necessary because the cost of living is high, they can't hire or keep needed staff. Working current staff overtime, can result in fatal mistakes involving residents.

Thank You people work double shifts because they have to not because they want to.
(Continue on back if necessary)

DGS CALIFORNIA DEPARTMENT OF GENERAL SERVICES

CAL VET CALIFORNIA DEPARTMENT OF VETERANS AFFAIRS

California Department of General Services/ California Department of Veterans Affairs

Yountville Skilled Nursing Facility EIR
March 28, 2019 Scoping Meeting

VINCE HEALY
NAME

ADDRESS

Yountville Resident
ORGANIZATION /AFFILIATION

PHONE (707) 227-2284
E-MAIL ADDRESS

FIRE COMMENT

REPLACE

Comment: - Wants Eucalyptus trees by stage out. Gradually over time, plant the entire oak woodland with fire-retardant plants & trees that take into account species that will provide the Yountville Home & Town a fire buffer zone. - Make it an example for United States.

Thank You

(Continue on back if necessary)

DGS CALIFORNIA DEPARTMENT OF GENERAL SERVICES

CAL VET CALIFORNIA DEPARTMENT OF VETERANS AFFAIRS

why not make the golf course
smaller.

Habitat for Humanity Can help
w/ gardens - buildings etc.

Dear Ms. Ash,

Thank you for this opportunity to comment on the proposed Yountville Veteran's Home skilled nursing facility.

As you know, and especially in your position as Environmental Planner, climate is a major concern as California moves forward. Many of us are concerned about preserving as much carbon sequestration and wildlife habitat as possible.

When we recently learned of this project, the preservation of oak woodland on the site was of concern. The site has a beautiful woodland, but it also appears to have much space that can be developed without disturbing the woodland. We have not seen a footprint for the proposed structure, but we would be very reassured to know that the development will preserve the woods.

Not only is the woodland valuable as a small, but important, part of climate mitigation; it is a very large contribution to the beauty and serenity so vital to those who have lived through trauma in the service to their country.

Would you please send a copy of the footprint for the new structure?

Thank you for your work,
Nancy McCoy-Blotzke

I recently had the opportunity to walk the Yountville Veteran's Home and explore the area proposed for the location of a new, 240 bed nursing facility. I am sure that this facility is one of extreme importance, especially as our Vietnam War veterans are approaching the age that may possibly necessitate their more intense medical attention. My concern is the projected location of this new facility. The large footprint of this expansion, according to the map included with the State's announcement, would lie in the southwest corner of the VH's property. It would extend through a park like area dotted with native trees, up the slope and into the western hills and over a large portion of a well-established oak/madrone forest. If allowed to proceed forward according to the current plan, the resulting loss of trees would and should be of significant concern!

Our planet is currently struggling with the devastating challenges of climate change. This potential disaster facing us, one and all, is due in part to the overwhelming loss of our world's forestland and the inability of those now missing trees to capture, sequester and utilize a substantial amount of atmospheric carbon. I would hate to see this Vet's Home undertaking add to our already dire climate woes.

It would be my hope that the State and the Veteran's Home administrators would thoroughly investigate all the alternative site options within the already developed Vet's Home grounds. From my point of view, there appears to be a number of available areas that could possibly accommodate the space needed for this critical nursing addition. It is of great importance that we do all we can to provide excellent care for our American veterans. Equally, it is of vital importance that we do what we can to care for and heal this world in which we all live.

Chris Sauer

My name is Jim Shupe

I reside in Section L , Jefferson Hall.

I have FIVE questions concerning This Project. Please provide a short answer to each question, as it is asked

1. Do you plan to start demolition of Polk and Jefferson Hall, before the E.I.R. is completed and approved?
2. If so, what would you do if The E.I.R. was not approved?
3. What are your plans for Holderman Hospital if E.I.R. is approved?
4. Do you have a projected cost and budget for this Skilled Nursing Facility.
5. Will the new skilled nursing facility be available for Community Based Outpatient Clinic services. (Non- Home residents of Napa County.)

I would like a verbal response to these questions and also a written answer e-mailed to me at jamesdashupe@yahoo.com.

Thank You,
Jim Shupe
707.227.5450



A Tradition of Stewardship
A Commitment to Service

NAPA COUNTY VETERANS' COMMISSION
JAMES D. SHUPE

200 CALIFORNIA DRIVE
Yountville, California 94599

jamesdashupe@yahoo.com
(707) 227-5450

To Whom it May Concern:

I have some questions for the powers that be:

1. Regarding the tearing down of 3 buildings - have you considered the additional cost of razing the bldgs, when there are at least two other possible where no buildings would have to be torn down? (North of current storage units there is a lot of vacant land and it seems like SE of current Holder man are two possible sites)

2. With the proposal of having to move 15 couples, where ever we go, the building will have to be renovated far ahead of the ground breaking of the new skilled nursing. Will our new home be ready for 15 couples to move in? All this entails additional cost and one more phase of the entire project.

3. The new building as proposed will be further from the front gate with less visibility and further for fire and other emergency vehicles to travel, which happens at least once a day.

In summary, it seems to me, no razing of bldgs, building on a site where there are no current bldgs and no renovations necessary, would be more cost effective and make many happy campers at Section L.

I would appreciate an acknowledgment of this email.

Respectfully submitted,

Richard Tiff, Section L
Yountville Veterans Home.

Summary of Oral Comments on the NOP



Public Scoping Meeting Comments

Yountville Skilled Nursing Facility Project

Date: March 28, 2019
Times: 3:00 PM – 4:00 PM and 6:00 PM – 7:00 PM
Location: Grant Hall, 170 California Avenue, Yountville, CA 94599

The public scoping meetings opened with introductory remarks by Fred Just, CDVA Homes Division Administrator and a PowerPoint presentation by Kate Werner, MIG Senior Project Manager. A general question and answer period followed. Between the two meeting times, there were approximately 100 people in attendance, with the first meeting (3:00 PM) being more widely attended (approximately 85 people) than the second. Comments and questions on the project were accepted both orally and in writing. The following summarizes questions and comments received during the public scoping meetings that are applicable to the preparation of the Environmental Impact Report (EIR) and Environmental Assessment (EA).

General

- When would project construction begin and when will it be finished?
- When would Jefferson Hall (i.e., Building L) be demolished?
- What would happen to Holderman Hospital?
- What would happen to the Memorial Garden?
- Where would the construction entrance be?
- Would the proposed SNF replace the existing SNF?

Aesthetics

- The building(s) should fit the current feel and character of the campus.

Biology

- How will the plants and animals (e.g., deer, geese, etc.) be protected?
- Will the trees in the Memorial Grove be saved and replanted somewhere else?

Hydrology and Water Quality

- Concern raised about deep groundwater contamination.

Population and Housing

- Where will people from the impacted buildings go?
- How will the hostess house be affected by the project, and will a new one be built if it is torn down?
- Consider temporary, modular units if residents are displaced.
- Affordable housing for staff is necessary.

Public Services

- The new building will be further from the front gate than the existing SNF; less visibility and longer for fire and other emergency vehicles to travel.

Transportation

- Concerns raised that parking could be an issue if placed next to Holderman Hospital.
- What are the plans to expand parking for the new SNF?
- Recommendation that construction traffic avoid disturbance on Main Campus Roads.

Wildfire

- Build in a fire safety area between the woodland and the proposed structure.
- Watch the eucalyptus by state out, and gradually replace the entire oak woodland with fire-retardant plants and trees. Replacement plants and trees should provide the Yountville Home and Town with a fire buffer zone.
- Is it possible to have a secondary fire escape lane?

Alternatives

- General recommendations that other locations for the proposed SNF should be considered (e.g., golf course, behind Buildings D/E, existing buildings, closer to the entrance, etc.).

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Veterans Home of California
Yountville Skilled Nursing Facility Project

Appendix B: CalEEMod Data

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Yountville SNF - Existing Conditions - Napa County, Annual

Yountville SNF - Existing Conditions

Napa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Motel	8.00	Room	0.05	2,000.00	0
Apartment Low Rise	68.00	Dwelling Unit	0.65	28,167.00	194
Single Family Housing	1.00	Dwelling Unit	0.32	5,000.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	294	CH4 Intensity (lb/MWhr)	0.33	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Yountville SNF - Existing Conditions - Napa County, Annual

Project Characteristics - MIG Modeler: Phil Gleason. Energy intensity factors adjusted downward to account for PG&E RPS mix in 2019 (based on data available from reported 2017 value @ approximately 33% RPS).

Land Use - Notes: 36 beds in Polk Hall; 32 beds in Jefferson Hall; 8 units in Hostess House. Square feet and acres adjusted to reflect project conditions. Nurses education building modeled as single family home.

Construction Phase - Existing conditions run. No construction occurring.

Trips and VMT - Existing conditions run. No construction occurring.

Grading - Existing conditions run. No construction occurring.

Vehicle Trips - Conservatively assumes the existing land uses at the project site do not generate trips by themselves.

Energy Use - Energy intensity factors adjusted upward to reflect difference between 2016 and 2008 T24 standards. Existing struct built btwn 1930 and 1960s and (before 2008). Modeling assumes the structures meet 2008 Title 24 energy efficiency standards.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblConstructionPhase	NumDays	4.00	0.00
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblEnergyUse	T24E	365.68	677.19
tblEnergyUse	T24E	2.05	2.88
tblEnergyUse	T24E	325.76	603.26
tblEnergyUse	T24NG	7,043.85	13,044.17
tblEnergyUse	T24NG	39.56	55.52
tblEnergyUse	T24NG	25,910.09	47,981.65
tblLandUse	LandUseSquareFeet	15,681.60	2,000.00
tblLandUse	LandUseSquareFeet	68,000.00	28,167.00
tblLandUse	LandUseSquareFeet	1,800.00	5,000.00
tblLandUse	LotAcreage	0.36	0.05
tblLandUse	LotAcreage	4.25	0.65

Yountville SNF - Existing Conditions - Napa County, Annual

tblProjectCharacteristics	CH4IntensityFactor	0.029	0.33
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	VendorTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	50.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	5.63	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	5.63	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	5.63	0.00
tblVehicleTrips	WD_TR	9.52	0.00

2.0 Emissions Summary

Yountville SNF - Existing Conditions - Napa County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational**Unmitigated Operational**

	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
Category	tons/yr										MT/yr					
Area	0.3403	9.7000e-003	0.7396	4.7000e-004		0.0350	0.0350		0.0350	0.0350	3.2272	2.1416	5.3688	6.0400e-003	2.1000e-004	5.5827
Energy	6.8700e-003	0.0590	0.0276	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	113.5742	113.5742	0.0525	1.8700e-003	115.4435
Mobile	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	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	7.4944	0.0000	7.4944	0.4429	0.0000	18.5671
Water						0.0000	0.0000		0.0000	0.0000	1.4906	4.7238	6.2145	0.1584	3.6800e-003	11.2710
Total	0.3472	0.0687	0.7671	8.4000e-004	0.0000	0.0397	0.0397	0.0000	0.0397	0.0397	12.2123	120.4397	132.6519	0.6599	5.7600e-003	150.8643

Yountville SNF - Existing Conditions - Napa County, Annual

2.2 Overall Operational**Mitigated Operational**

	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
Category	tons/yr										MT/yr					
Area	0.3403	9.7000e-003	0.7396	4.7000e-004		0.0350	0.0350		0.0350	0.0350	3.2272	2.1416	5.3688	6.0400e-003	2.1000e-004	5.5827
Energy	6.8700e-003	0.0590	0.0276	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	113.5742	113.5742	0.0525	1.8700e-003	115.4435
Mobile	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	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	7.4944	0.0000	7.4944	0.4429	0.0000	18.5671
Water						0.0000	0.0000		0.0000	0.0000	1.4906	4.7238	6.2145	0.1584	3.6800e-003	11.2710
Total	0.3472	0.0687	0.7671	8.4000e-004	0.0000	0.0397	0.0397	0.0000	0.0397	0.0397	12.2123	120.4397	132.6519	0.6599	5.7600e-003	150.8643

	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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Yountville SNF - Existing Conditions - Napa County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	12/31/2017	5	0	
2	Site Preparation	Site Preparation	1/27/2018	1/26/2018	5	0	
3	Grading	Grading	1/31/2018	1/30/2018	5	0	
4	Building Construction	Building Construction	2/6/2018	2/5/2018	5	0	
5	Paving	Paving	11/13/2018	11/12/2018	5	0	
6	Architectural Coating	Architectural Coating	11/27/2018	11/26/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 67,163; Residential Outdoor: 22,388; Non-Residential Indoor: 3,000; Non-Residential Outdoor: 1,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Yountville SNF - Existing Conditions - Napa County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Yountville SNF - Existing Conditions - Napa County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

[illegible]

3.4 Grading - 2018

Unmitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.4 Grading - 2018

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.4 Grading - 2018

Mitigated Construction Off-Site

[illegible]

3.5 Building Construction - 2018

Unmitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.5 Building Construction - 2018

Mitigated Construction Off-Site

[illegible]

3.6 Paving - 2018

Unmitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.6 Paving - 2018

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.6 Paving - 2018

Mitigated Construction Off-Site

[illegible]

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Yountville SNF - Existing Conditions - Napa County, Annual

3.7 Architectural Coating - 2018**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	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	0.0000
Worker	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	0.0000
Total	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	0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Yountville SNF - Existing Conditions - Napa County, Annual

	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
Category	tons/yr										MT/yr					
Mitigated	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	0.0000
Unmitigated	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	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	0.00	0.00	0.00		
Motel	0.00	0.00	0.00		
Single Family Housing	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Motel	9.50	7.30	7.30	19.00	62.00	19.00	58	38	4
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Yountville SNF - Existing Conditions - Napa County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.558568	0.040698	0.173766	0.124720	0.028333	0.006860	0.018447	0.034895	0.003787	0.001906	0.005806	0.001018	0.001197
Motel	0.558568	0.040698	0.173766	0.124720	0.028333	0.006860	0.018447	0.034895	0.003787	0.001906	0.005806	0.001018	0.001197
Single Family Housing	0.558568	0.040698	0.173766	0.124720	0.028333	0.006860	0.018447	0.034895	0.003787	0.001906	0.005806	0.001018	0.001197

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.6304	45.6304	0.0512	6.2000e-004	47.0958
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.6304	45.6304	0.0512	6.2000e-004	47.0958
NaturalGas Mitigated	6.8700e-003	0.0590	0.0276	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	67.9439	67.9439	1.3000e-003	1.2500e-003	68.3476
NaturalGas Unmitigated	6.8700e-003	0.0590	0.0276	3.7000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	67.9439	67.9439	1.3000e-003	1.2500e-003	68.3476

Yountville SNF - Existing Conditions - Napa County, Annual

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.10154e+006	5.9400e-003	0.0508	0.0216	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.7826	58.7826	1.1300e-003	1.0800e-003	59.1319
Motel	120540	6.5000e-004	5.9100e-003	4.9600e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	6.4325	6.4325	1.2000e-004	1.2000e-004	6.4707
Single Family Housing	51136.7	2.8000e-004	2.3600e-003	1.0000e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7289	2.7289	5.0000e-005	5.0000e-005	2.7451
Total		6.8700e-003	0.0590	0.0276	3.8000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	67.9439	67.9439	1.3000e-003	1.2500e-003	68.3476

Mitigated

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.10154e+006	5.9400e-003	0.0508	0.0216	3.2000e-004		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	58.7826	58.7826	1.1300e-003	1.0800e-003	59.1319
Motel	120540	6.5000e-004	5.9100e-003	4.9600e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	6.4325	6.4325	1.2000e-004	1.2000e-004	6.4707
Single Family Housing	51136.7	2.8000e-004	2.3600e-003	1.0000e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7289	2.7289	5.0000e-005	5.0000e-005	2.7451
Total		6.8700e-003	0.0590	0.0276	3.8000e-004		4.7400e-003	4.7400e-003		4.7400e-003	4.7400e-003	0.0000	67.9439	67.9439	1.3000e-003	1.2500e-003	68.3476

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	316901	42.2607	0.0474	5.7000e-004	43.6179
Motel	16900	2.2537	2.5300e-003	3.0000e-005	2.3261
Single Family Housing	8368.07	1.1159	1.2500e-003	2.0000e-005	1.1518
Total		45.6304	0.0512	6.2000e-004	47.0958

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	316901	42.2607	0.0474	5.7000e-004	43.6179
Motel	16900	2.2537	2.5300e-003	3.0000e-005	2.3261
Single Family Housing	8368.07	1.1159	1.2500e-003	2.0000e-005	1.1518
Total		45.6304	0.0512	6.2000e-004	47.0958

6.0 Area Detail

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6.1 Mitigation Measures Area

	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
Category	tons/yr										MT/yr					
Mitigated	0.3403	9.7000e-003	0.7396	4.7000e-004		0.0350	0.0350		0.0350	0.0350	3.2272	2.1416	5.3688	6.0400e-003	2.1000e-004	5.5827
Unmitigated	0.3403	9.7000e-003	0.7396	4.7000e-004		0.0350	0.0350		0.0350	0.0350	3.2272	2.1416	5.3688	6.0400e-003	2.1000e-004	5.5827

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6.2 Area by SubCategory**Unmitigated**

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0244					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1373					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1628	3.7400e-003	0.2246	4.5000e-004		0.0321	0.0321		0.0321	0.0321	3.2272	1.3046	4.5318	5.2200e-003	2.1000e-004	4.7251
Landscaping	0.0158	5.9600e-003	0.5149	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	0.8370	0.8370	8.2000e-004	0.0000	0.8576
Total	0.3403	9.7000e-003	0.7396	4.8000e-004		0.0349	0.0349		0.0349	0.0349	3.2272	2.1416	5.3688	6.0400e-003	2.1000e-004	5.5827

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6.2 Area by SubCategory**Mitigated**

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0244					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1373					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1628	3.7400e-003	0.2246	4.5000e-004		0.0321	0.0321		0.0321	0.0321	3.2272	1.3046	4.5318	5.2200e-003	2.1000e-004	4.7251
Landscaping	0.0158	5.9600e-003	0.5149	3.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003	0.0000	0.8370	0.8370	8.2000e-004	0.0000	0.8576
Total	0.3403	9.7000e-003	0.7396	4.8000e-004		0.0349	0.0349		0.0349	0.0349	3.2272	2.1416	5.3688	6.0400e-003	2.1000e-004	5.5827

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.2145	0.1584	3.6800e-003	11.2710
Unmitigated	6.2145	0.1584	3.6800e-003	11.2710

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	4.43047 / 2.79312	5.9063	0.1494	3.4700e-003	10.6758
Motel	0.202934 / 0.0225482	0.2213	6.7900e-003	1.6000e-004	0.4382
Single Family Housing	0.065154 / 0.0410754	0.0869	2.2000e-003	5.0000e-005	0.1570
Total		6.2145	0.1584	3.6800e-003	11.2710

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	4.43047 / 2.79312	5.9063	0.1494	3.4700e-003	10.6758
Motel	0.202934 / 0.0225482	0.2213	6.7900e-003	1.6000e-004	0.4382
Single Family Housing	0.065154 / 0.0410754	0.0869	2.2000e-003	5.0000e-005	0.1570
Total		6.2145	0.1584	3.6800e-003	11.2710

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.4944	0.4429	0.0000	18.5671
Unmitigated	7.4944	0.4429	0.0000	18.5671

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	31.28	6.3496	0.3753	0.0000	15.7308
Motel	4.38	0.8891	0.0525	0.0000	2.2027
Single Family Housing	1.26	0.2558	0.0151	0.0000	0.6337
Total		7.4944	0.4429	0.0000	18.5671

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	31.28	6.3496	0.3753	0.0000	15.7308
Motel	4.38	0.8891	0.0525	0.0000	2.2027
Single Family Housing	1.26	0.2558	0.0151	0.0000	0.6337
Total		7.4944	0.4429	0.0000	18.5671

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

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11.0 Vegetation

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Yountville SNF - Proposed Project

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	11.17	1000sqft	0.26	11,173.00	0
Other Asphalt Surfaces	158.84	1000sqft	3.65	158,844.00	0
Parking Lot	186.45	1000sqft	4.28	186,450.00	0
Congregate Care (Assisted Living)	240.00	Dwelling Unit	2.62	285,000.00	686

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.6	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	206.24	CH4 Intensity (lb/MWhr)	0.036	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - MIG Modeler: Phil Gleason. GHG intensity factors adjusted to reflect estimated PG&E 2023 RPS energy mix.

Land Use - Source: Sillman Wright Architects Sheet A-105 for Conceptual Site Plan Concept 2. Transmitted to MIG 11/7/19.

ConCare=SNF;GenLtInd=WaterTank&CentPlnt;ParkingLot=parking, hardscape, roadway improvements;asphalt=roadway after trenching.

Construction Phase - No site preparation phase. Added additional phase for framing, furnishing, equipment and furnishing, and for trenching.

Off-road Equipment -

Off-road Equipment - Demolition Equipment - Construction equipment assumptions provided by DGS.

Off-road Equipment - Earthwork - Types of equipment provided by DGS. Equipment hours adjusted downward to reflect equipment would be used periodically throughout the day. One scraper and TLB retained instead of inputting a paving machine.

Off-road Equipment - Foundation / Slabs - Equipment type provided by DHS. OCE represents the articulation boom concrete pump.

Off-road Equipment - Framing and Finishing and Equipment and Furnishing - Equipment provided for DGS.

Off-road Equipment - Landscaping - TLB added for skip-loader and bobcats. OCE for boom pump. Equipment hours adjusted downward to reflect periodic operation.

Off-road Equipment - No site prep phase. Covered by demolition and earthwork.

Off-road Equipment - Trenching - Reflects trencher to excavate, and modified forklift to raise and lower piping. Paving to cover area after being improved.

Trips and VMT - Earthwork hauling assumes 104,000 CY would be off-hauled by 16CY trucks. Additional hauling for "Foundation / Slabs" and "Landscaping"/"Trenching" captures 7ft deep foundations and 1ft of paving, respectively.

Demolition - Demo - Jefferson 12,453; Polk 15,714; Hostess 2,000; Nurses Edu 5,000; Garages 3,400; Band 5,000 = 43,567

Grading - Source: Sillman Wright Arch on Sheet A-105. Approximately 104,000 CY of cut.

Vehicle Trips - Gen Lt Industry is for Central Plant and Water Tank. They don't have inherent trips. Trip rate for CC reflects 100 new employees. Trip type and distance updated to be consistent with hVMT analysis in TIA.

Energy Use - CC lighting energy intensity value decreased to reflect building efficiency improvements between 2016 and 2019 T24 building code.

Solid Waste - Water tank and central plant would not generate waste.

Construction Off-road Equipment Mitigation - Project would use all Tier III or IV equipment. Modeling conservatively assumes all equipment would be Tier III. Project would comply with BAAQMD BMPs for fugitive dust.

Energy Mitigation - Project would exceed Title 24 standards by 15 percent, at a minimum, to achieve LEED Gold certification.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	30.00	108.00
tblConstructionPhase	NumDays	300.00	87.00
tblConstructionPhase	NumDays	300.00	347.00
tblConstructionPhase	NumDays	20.00	66.00

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tblEnergyUse	LightingElect	741.44	519.01
tblGrading	MaterialExported	0.00	104,000.00
tblLandUse	LandUseSquareFeet	11,170.00	11,173.00
tblLandUse	LandUseSquareFeet	158,840.00	158,844.00
tblLandUse	LandUseSquareFeet	240,000.00	285,000.00
tblLandUse	LotAcreage	15.00	2.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00

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tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.036
tblProjectCharacteristics	CO2IntensityFactor	641.35	206.24
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblSolidWaste	SolidWasteGenerationRate	13.85	0.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	84.00	205.00
tblTripsAndVMT	VendorTripNumber	84.00	97.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	5.70	0.00
tblVehicleTrips	HO_TTP	54.00	0.00
tblVehicleTrips	HS_TL	4.80	0.00
tblVehicleTrips	HS_TTP	15.00	0.00
tblVehicleTrips	HW_TL	10.80	19.70
tblVehicleTrips	HW_TTP	31.00	100.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	2.20	0.42
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	2.44	0.42
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	2.74	0.42
tblVehicleTrips	WD_TR	6.97	0.00

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2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	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
Year	tons/yr										MT/yr					
2021	0.4564	6.1808	3.0889	0.0135	0.9560	0.1542	1.1102	0.3814	0.1422	0.5236	0.0000	1,259.219 1	1,259.219 1	0.1453	0.0000	1,262.851 9
2022	2.4526	2.8082	2.2792	8.3300e-003	0.4204	0.0744	0.4948	0.1138	0.0686	0.1824	0.0000	767.2261	767.2261	0.0783	0.0000	769.1838
2023	0.1023	0.8141	0.9509	2.2600e-003	0.0735	0.0324	0.1059	0.0199	0.0299	0.0497	0.0000	203.9282	203.9282	0.0379	0.0000	204.8764
Maximum	2.4526	6.1808	3.0889	0.0135	0.9560	0.1542	1.1102	0.3814	0.1422	0.5236	0.0000	1,259.219 1	1,259.219 1	0.1453	0.0000	1,262.851 9

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2021	0.2619	4.8735	3.4755	0.0135	0.6338	0.0886	0.7225	0.2273	0.0882	0.3154	0.0000	1,259.218 7	1,259.218 7	0.1453	0.0000	1,262.851 5
2022	2.3683	2.3956	2.5518	8.3300e-003	0.4204	0.0542	0.4746	0.1138	0.0539	0.1676	0.0000	767.2259	767.2259	0.0783	0.0000	769.1836
2023	0.0686	0.7911	1.0881	2.2600e-003	0.0735	0.0343	0.1078	0.0199	0.0343	0.0541	0.0000	203.9281	203.9281	0.0379	0.0000	204.8762
Maximum	2.3683	4.8735	3.4755	0.0135	0.6338	0.0886	0.7225	0.2273	0.0882	0.3154	0.0000	1,259.218 7	1,259.218 7	0.1453	0.0000	1,262.851 5

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	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
Percent Reduction	10.38	17.78	-12.60	0.00	22.22	32.15	23.74	29.92	26.74	28.91	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	1.6433	1.2359
2	4-1-2021	6-30-2021	2.4245	1.7930
3	7-1-2021	9-30-2021	1.3875	1.1560
4	10-1-2021	12-31-2021	1.0941	0.8768
5	1-1-2022	3-31-2022	0.8018	0.6705
6	4-1-2022	6-30-2022	0.7623	0.6407
7	7-1-2022	9-30-2022	0.7707	0.6478
8	10-1-2022	12-31-2022	2.9389	2.8159
9	1-1-2023	3-31-2023	0.5920	0.5346
10	4-1-2023	6-30-2023	0.3273	0.3279
		Highest	2.9389	2.8159

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2.2 Overall Operational**Unmitigated Operational**

	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
Category	tons/yr										MT/yr					
Area	2.0004	0.0333	2.5482	1.6100e-003		0.1189	0.1189		0.1189	0.1189	10.9415	7.4115	18.3530	0.0204	7.2000e-004	19.0769
Energy	0.0128	0.1100	0.0528	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003	0.0000	228.8098	228.8098	0.0203	4.3000e-003	230.5998
Mobile	0.0432	0.2625	0.7160	2.9500e-003	0.2693	2.3200e-003	0.2716	0.0723	2.1700e-003	0.0744	0.0000	271.4059	271.4059	8.5500e-003	0.0000	271.6197
Stationary	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
Waste						0.0000	0.0000		0.0000	0.0000	44.4550	0.0000	44.4550	2.6272	0.0000	110.1354
Water						0.0000	0.0000		0.0000	0.0000	5.7804	12.4506	18.2310	0.5959	0.0143	37.3773
Total	2.0564	0.4058	3.3170	5.2600e-003	0.2693	0.1300	0.3993	0.0723	0.1299	0.2022	61.1769	520.0777	581.2547	3.2723	0.0193	668.8091

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2.2 Overall Operational**Mitigated Operational**

	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
Category	tons/yr										MT/yr					
Area	2.0004	0.0333	2.5482	1.6100e-003		0.1189	0.1189		0.1189	0.1189	10.9415	7.4115	18.3530	0.0204	7.2000e-004	19.0769
Energy	0.0115	0.0993	0.0476	6.3000e-004		7.9600e-003	7.9600e-003		7.9600e-003	7.9600e-003	0.0000	215.1580	215.1580	0.0198	4.0500e-003	216.8612
Mobile	0.0432	0.2625	0.7160	2.9500e-003	0.2693	2.3200e-003	0.2716	0.0723	2.1700e-003	0.0744	0.0000	271.4059	271.4059	8.5500e-003	0.0000	271.6197
Stationary	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
Waste						0.0000	0.0000		0.0000	0.0000	44.4550	0.0000	44.4550	2.6272	0.0000	110.1354
Water						0.0000	0.0000		0.0000	0.0000	5.7804	12.4506	18.2310	0.5959	0.0143	37.3773
Total	2.0551	0.3951	3.3118	5.1900e-003	0.2693	0.1292	0.3985	0.0723	0.1290	0.2013	61.1769	506.4260	567.6029	3.2719	0.0190	655.0705

	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
Percent Reduction	0.06	2.64	0.16	1.33	0.00	0.66	0.22	0.00	0.66	0.43	0.00	2.62	2.35	0.01	1.30	2.05

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	1/29/2021	5	21	
2	Site Preparation	Site Preparation	2/1/2021	1/31/2021	5	0	
3	Earthwork	Grading	2/1/2021	6/30/2021	5	108	
4	Trenching	Trenching	2/1/2021	1/31/2022	5	261	
5	Foundation / Slabs	Building Construction	7/1/2021	10/29/2021	5	87	
6	Framing, Finishing, Equipment, and Furnish	Building Construction	11/1/2021	2/28/2023	5	347	
7	Architectural Coating	Architectural Coating	10/4/2022	10/31/2022	5	20	
8	Landscaping	Paving	3/1/2023	5/31/2023	5	66	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 7.93

Residential Indoor: 577,125; Residential Outdoor: 192,375; Non-Residential Indoor: 16,760; Non-Residential Outdoor: 5,587; Striped Parking Area: 20,718 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Earthwork	Cranes	1	4.00	231	0.29
Earthwork	Excavators	1	6.00	158	0.38
Earthwork	Graders	1	6.00	187	0.41

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Earthwork	Rubber Tired Dozers	2	6.00	247	0.40
Earthwork	Scrapers	1	6.00	367	0.48
Earthwork	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Trenching	Forklifts	1	4.00	89	0.20
Trenching	Paving Equipment	1	2.00	132	0.36
Trenching	Trenchers	1	4.00	78	0.50
Foundation / Slabs	Cranes	2	7.00	231	0.29
Foundation / Slabs	Forklifts	0	8.00	89	0.20
Foundation / Slabs	Generator Sets	0	8.00	84	0.74
Foundation / Slabs	Other Construction Equipment	1	8.00	172	0.42
Foundation / Slabs	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Foundation / Slabs	Welders	0	8.00	46	0.45
Framing, Finishing, Equipment, and Furnish	Cranes	2	7.00	231	0.29
Framing, Finishing, Equipment, and Furnish	Forklifts	3	8.00	89	0.20
Framing, Finishing, Equipment, and Furnish	Generator Sets	0	8.00	84	0.74
Framing, Finishing, Equipment, and Furnish	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Framing, Finishing, Equipment, and Furnish	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Landscaping	Forklifts	1	6.00	89	0.20
Landscaping	Other Construction Equipment	1	6.00	172	0.42
Landscaping	Pavers	2	6.00	130	0.42
Landscaping	Paving Equipment	2	6.00	132	0.36
Landscaping	Rollers	2	6.00	80	0.38
Landscaping	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	1	3.00	0.00	198.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Earthwork	7	18.00	0.00	13,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	3	8.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Foundation / Slabs	3	323.00	205.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Framing, Finishing, Equipment, and Furnish	5	323.00	97.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	65.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Landscaping	10	25.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2021**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Fugitive Dust					0.0224	0.0000	0.0224	3.4000e-003	0.0000	3.4000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4100e-003	0.0226	0.0344	5.0000e-005		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	4.7646	4.7646	1.5400e-003	0.0000	4.8031
Total	2.4100e-003	0.0226	0.0344	5.0000e-005	0.0224	1.1000e-003	0.0235	3.4000e-003	1.0100e-003	4.4100e-003	0.0000	4.7646	4.7646	1.5400e-003	0.0000	4.8031

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3.2 Demolition - 2021**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0273	5.5500e-003	8.0000e-005	1.6700e-003	9.0000e-005	1.7600e-003	4.6000e-004	8.0000e-005	5.4000e-004	0.0000	7.4535	7.4535	3.7000e-004	0.0000	7.4628
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	0.0000
Worker	1.1000e-004	8.0000e-005	8.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2076	0.2076	1.0000e-005	0.0000	0.2077
Total	8.9000e-004	0.0274	6.3800e-003	8.0000e-005	1.9200e-003	9.0000e-005	2.0100e-003	5.3000e-004	8.0000e-005	6.1000e-004	0.0000	7.6611	7.6611	3.8000e-004	0.0000	7.6705

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Fugitive Dust					0.0101	0.0000	0.0101	1.5300e-003	0.0000	1.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	0.0258	0.0411	5.0000e-005		1.2500e-003	1.2500e-003		1.2500e-003	1.2500e-003	0.0000	4.7645	4.7645	1.5400e-003	0.0000	4.8031
Total	1.3300e-003	0.0258	0.0411	5.0000e-005	0.0101	1.2500e-003	0.0113	1.5300e-003	1.2500e-003	2.7800e-003	0.0000	4.7645	4.7645	1.5400e-003	0.0000	4.8031

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3.2 Demolition - 2021

Mitigated Construction Off-Site

	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
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0273	5.5500e-003	8.0000e-005	1.6700e-003	9.0000e-005	1.7600e-003	4.6000e-004	8.0000e-005	5.4000e-004	0.0000	7.4535	7.4535	3.7000e-004	0.0000	7.4628
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	0.0000
Worker	1.1000e-004	8.0000e-005	8.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2076	0.2076	1.0000e-005	0.0000	0.2077
Total	8.9000e-004	0.0274	6.3800e-003	8.0000e-005	1.9200e-003	9.0000e-005	2.0100e-003	5.3000e-004	8.0000e-005	6.1000e-004	0.0000	7.6611	7.6611	3.8000e-004	0.0000	7.6705

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

[illegible]

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3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

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3.3 Site Preparation - 2021**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	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	0.0000
Worker	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	0.0000
Total	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	0.0000

3.4 Earthwork - 2021**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Fugitive Dust					0.5634	0.0000	0.5634	0.2768	0.0000	0.2768	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1688	1.8570	0.9599	2.0600e-003		0.0817	0.0817		0.0751	0.0751	0.0000	181.4227	181.4227	0.0587	0.0000	182.8896
Total	0.1688	1.8570	0.9599	2.0600e-003	0.5634	0.0817	0.6450	0.2768	0.0751	0.3519	0.0000	181.4227	181.4227	0.0587	0.0000	182.8896

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3.4 Earthwork - 2021**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
Hauling	0.0510	1.7946	0.3647	5.0500e-003	0.1095	5.7200e-003	0.1153	0.0301	5.4700e-003	0.0356	0.0000	489.3712	489.3712	0.0244	0.0000	489.9804
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	0.0000
Worker	3.4800e-003	2.4300e-003	0.0255	7.0000e-005	7.6800e-003	5.0000e-005	7.7300e-003	2.0400e-003	5.0000e-005	2.0900e-003	0.0000	6.4046	6.4046	1.7000e-004	0.0000	6.4088
Total	0.0544	1.7971	0.3902	5.1200e-003	0.1172	5.7700e-003	0.1230	0.0321	5.5200e-003	0.0377	0.0000	495.7758	495.7758	0.0245	0.0000	496.3892

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Fugitive Dust					0.2535	0.0000	0.2535	0.1246	0.0000	0.1246	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0507	0.9902	1.1730	2.0600e-003		0.0409	0.0409		0.0409	0.0409	0.0000	181.4225	181.4225	0.0587	0.0000	182.8894
Total	0.0507	0.9902	1.1730	2.0600e-003	0.2535	0.0409	0.2944	0.1246	0.0409	0.1654	0.0000	181.4225	181.4225	0.0587	0.0000	182.8894

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3.4 Earthwork - 2021**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
Hauling	0.0510	1.7946	0.3647	5.0500e-003	0.1095	5.7200e-003	0.1153	0.0301	5.4700e-003	0.0356	0.0000	489.3712	489.3712	0.0244	0.0000	489.9804
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	0.0000
Worker	3.4800e-003	2.4300e-003	0.0255	7.0000e-005	7.6800e-003	5.0000e-005	7.7300e-003	2.0400e-003	5.0000e-005	2.0900e-003	0.0000	6.4046	6.4046	1.7000e-004	0.0000	6.4088
Total	0.0544	1.7971	0.3902	5.1200e-003	0.1172	5.7700e-003	0.1230	0.0321	5.5200e-003	0.0377	0.0000	495.7758	495.7758	0.0245	0.0000	496.3892

3.5 Trenching - 2021**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Off-Road	0.0365	0.3397	0.3027	4.2000e-004		0.0232	0.0232		0.0213	0.0213	0.0000	36.5876	36.5876	0.0118	0.0000	36.8834
Total	0.0365	0.3397	0.3027	4.2000e-004		0.0232	0.0232		0.0213	0.0213	0.0000	36.5876	36.5876	0.0118	0.0000	36.8834

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3.5 Trenching - 2021**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	1.2300e-003	0.0393	0.0103	1.0000e-004	2.3600e-003	9.0000e-005	2.4500e-003	6.8000e-004	9.0000e-005	7.7000e-004	0.0000	9.2666	9.2666	4.7000e-004	0.0000	9.2784
Worker	3.4300e-003	2.4000e-003	0.0252	7.0000e-005	7.5900e-003	5.0000e-005	7.6400e-003	2.0200e-003	5.0000e-005	2.0700e-003	0.0000	6.3255	6.3255	1.6000e-004	0.0000	6.3297
Total	4.6600e-003	0.0417	0.0355	1.7000e-004	9.9500e-003	1.4000e-004	0.0101	2.7000e-003	1.4000e-004	2.8400e-003	0.0000	15.5921	15.5921	6.3000e-004	0.0000	15.6081

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Off-Road	0.0102	0.2230	0.3154	4.2000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	36.5875	36.5875	0.0118	0.0000	36.8833
Total	0.0102	0.2230	0.3154	4.2000e-004		0.0144	0.0144		0.0144	0.0144	0.0000	36.5875	36.5875	0.0118	0.0000	36.8833

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3.5 Trenching - 2021**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	1.2300e-003	0.0393	0.0103	1.0000e-004	2.3600e-003	9.0000e-005	2.4500e-003	6.8000e-004	9.0000e-005	7.7000e-004	0.0000	9.2666	9.2666	4.7000e-004	0.0000	9.2784
Worker	3.4300e-003	2.4000e-003	0.0252	7.0000e-005	7.5900e-003	5.0000e-005	7.6400e-003	2.0200e-003	5.0000e-005	2.0700e-003	0.0000	6.3255	6.3255	1.6000e-004	0.0000	6.3297
Total	4.6600e-003	0.0417	0.0355	1.7000e-004	9.9500e-003	1.4000e-004	0.0101	2.7000e-003	1.4000e-004	2.8400e-003	0.0000	15.5921	15.5921	6.3000e-004	0.0000	15.6081

3.5 Trenching - 2022**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Off-Road	2.9700e-003	0.0278	0.0264	4.0000e-005		1.8500e-003	1.8500e-003		1.7000e-003	1.7000e-003	0.0000	3.2016	3.2016	1.0400e-003	0.0000	3.2275
Total	2.9700e-003	0.0278	0.0264	4.0000e-005		1.8500e-003	1.8500e-003		1.7000e-003	1.7000e-003	0.0000	3.2016	3.2016	1.0400e-003	0.0000	3.2275

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3.5 Trenching - 2022**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	1.0000e-004	3.2600e-003	8.2000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8037	0.8037	4.0000e-005	0.0000	0.8047
Worker	2.8000e-004	1.9000e-004	2.0100e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5332	0.5332	1.0000e-005	0.0000	0.5336
Total	3.8000e-004	3.4500e-003	2.8300e-003	2.0000e-005	8.7000e-004	1.0000e-005	8.8000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	1.3370	1.3370	5.0000e-005	0.0000	1.3383

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Off-Road	9.0000e-004	0.0195	0.0276	4.0000e-005		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	3.2016	3.2016	1.0400e-003	0.0000	3.2275
Total	9.0000e-004	0.0195	0.0276	4.0000e-005		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	3.2016	3.2016	1.0400e-003	0.0000	3.2275

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3.5 Trenching - 2022**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	1.0000e-004	3.2600e-003	8.2000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.1000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8037	0.8037	4.0000e-005	0.0000	0.8047
Worker	2.8000e-004	1.9000e-004	2.0100e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5332	0.5332	1.0000e-005	0.0000	0.5336
Total	3.8000e-004	3.4500e-003	2.8300e-003	2.0000e-005	8.7000e-004	1.0000e-005	8.8000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	1.3370	1.3370	5.0000e-005	0.0000	1.3383

3.6 Foundation / Slabs - 2021**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Off-Road	0.0497	0.5597	0.3273	7.1000e-004		0.0250	0.0250		0.0230	0.0230	0.0000	62.2055	62.2055	0.0201	0.0000	62.7084
Total	0.0497	0.5597	0.3273	7.1000e-004		0.0250	0.0250		0.0230	0.0230	0.0000	62.2055	62.2055	0.0201	0.0000	62.7084

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3.6 Foundation / Slabs - 2021**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	0.0304	0.9736	0.2543	2.3900e-003	0.0584	2.2100e-003	0.0606	0.0169	2.1200e-003	0.0190	0.0000	229.5416	229.5416	0.0117	0.0000	229.8337
Worker	0.0503	0.0351	0.3686	1.0200e-003	0.1110	7.5000e-004	0.1118	0.0295	6.9000e-004	0.0302	0.0000	92.5801	92.5801	2.4100e-003	0.0000	92.6405
Total	0.0807	1.0087	0.6229	3.4100e-003	0.1694	2.9600e-003	0.1724	0.0464	2.8100e-003	0.0492	0.0000	322.1217	322.1217	0.0141	0.0000	322.4742

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Off-Road	0.0174	0.3373	0.4389	7.1000e-004		0.0141	0.0141		0.0141	0.0141	0.0000	62.2054	62.2054	0.0201	0.0000	62.7084
Total	0.0174	0.3373	0.4389	7.1000e-004		0.0141	0.0141		0.0141	0.0141	0.0000	62.2054	62.2054	0.0201	0.0000	62.7084

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3.6 Foundation / Slabs - 2021**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	0.0304	0.9736	0.2543	2.3900e-003	0.0584	2.2100e-003	0.0606	0.0169	2.1200e-003	0.0190	0.0000	229.5416	229.5416	0.0117	0.0000	229.8337
Worker	0.0503	0.0351	0.3686	1.0200e-003	0.1110	7.5000e-004	0.1118	0.0295	6.9000e-004	0.0302	0.0000	92.5801	92.5801	2.4100e-003	0.0000	92.6405
Total	0.0807	1.0087	0.6229	3.4100e-003	0.1694	2.9600e-003	0.1724	0.0464	2.8100e-003	0.0492	0.0000	322.1217	322.1217	0.0141	0.0000	322.4742

3.7 Framing, Finishing, Equipment, and Furnish - 2021**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Off-Road	0.0250	0.2705	0.1569	3.3000e-004		0.0134	0.0134		0.0123	0.0123	0.0000	29.0230	29.0230	9.3900e-003	0.0000	29.2577
Total	0.0250	0.2705	0.1569	3.3000e-004		0.0134	0.0134		0.0123	0.0123	0.0000	29.0230	29.0230	9.3900e-003	0.0000	29.2577

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3.7 Framing, Finishing, Equipment, and Furnish - 2021**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	7.4400e-003	0.2383	0.0622	5.9000e-004	0.0143	5.4000e-004	0.0148	4.1300e-003	5.2000e-004	4.6500e-003	0.0000	56.1788	56.1788	2.8600e-003	0.0000	56.2503
Worker	0.0260	0.0182	0.1906	5.3000e-004	0.0574	3.9000e-004	0.0578	0.0153	3.6000e-004	0.0156	0.0000	47.8863	47.8863	1.2500e-003	0.0000	47.9175
Total	0.0334	0.2564	0.2529	1.1200e-003	0.0717	9.3000e-004	0.0727	0.0194	8.8000e-004	0.0203	0.0000	104.0651	104.0651	4.1100e-003	0.0000	104.1678

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Off-Road	8.1300e-003	0.1660	0.1994	3.3000e-004		8.1600e-003	8.1600e-003		8.1600e-003	8.1600e-003	0.0000	29.0230	29.0230	9.3900e-003	0.0000	29.2577
Total	8.1300e-003	0.1660	0.1994	3.3000e-004		8.1600e-003	8.1600e-003		8.1600e-003	8.1600e-003	0.0000	29.0230	29.0230	9.3900e-003	0.0000	29.2577

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3.7 Framing, Finishing, Equipment, and Furnish - 2021**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	7.4400e-003	0.2383	0.0622	5.9000e-004	0.0143	5.4000e-004	0.0148	4.1300e-003	5.2000e-004	4.6500e-003	0.0000	56.1788	56.1788	2.8600e-003	0.0000	56.2503
Worker	0.0260	0.0182	0.1906	5.3000e-004	0.0574	3.9000e-004	0.0578	0.0153	3.6000e-004	0.0156	0.0000	47.8863	47.8863	1.2500e-003	0.0000	47.9175
Total	0.0334	0.2564	0.2529	1.1200e-003	0.0717	9.3000e-004	0.0727	0.0194	8.8000e-004	0.0203	0.0000	104.0651	104.0651	4.1100e-003	0.0000	104.1678

3.7 Framing, Finishing, Equipment, and Furnish - 2022**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Off-Road	0.1292	1.3633	0.8805	1.9100e-003		0.0668	0.0668		0.0614	0.0614	0.0000	167.7076	167.7076	0.0542	0.0000	169.0636
Total	0.1292	1.3633	0.8805	1.9100e-003		0.0668	0.0668		0.0614	0.0614	0.0000	167.7076	167.7076	0.0542	0.0000	169.0636

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3.7 Framing, Finishing, Equipment, and Furnish - 2022**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	0.0398	1.3042	0.3293	3.3500e-003	0.0826	2.7200e-003	0.0853	0.0239	2.6000e-003	0.0265	0.0000	321.7450	321.7450	0.0163	0.0000	322.1515
Worker	0.1396	0.0939	1.0065	2.9500e-003	0.3318	2.1700e-003	0.3340	0.0883	2.0000e-003	0.0903	0.0000	266.5555	266.5555	6.4500e-003	0.0000	266.7168
Total	0.1794	1.3981	1.3358	6.3000e-003	0.4144	4.8900e-003	0.4193	0.1122	4.6000e-003	0.1168	0.0000	588.3005	588.3005	0.0227	0.0000	588.8683

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Off-Road	0.0470	0.9591	1.1519	1.9100e-003		0.0472	0.0472		0.0472	0.0472	0.0000	167.7074	167.7074	0.0542	0.0000	169.0634
Total	0.0470	0.9591	1.1519	1.9100e-003		0.0472	0.0472		0.0472	0.0472	0.0000	167.7074	167.7074	0.0542	0.0000	169.0634

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3.7 Framing, Finishing, Equipment, and Furnish - 2022**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	0.0398	1.3042	0.3293	3.3500e-003	0.0826	2.7200e-003	0.0853	0.0239	2.6000e-003	0.0265	0.0000	321.7450	321.7450	0.0163	0.0000	322.1515
Worker	0.1396	0.0939	1.0065	2.9500e-003	0.3318	2.1700e-003	0.3340	0.0883	2.0000e-003	0.0903	0.0000	266.5555	266.5555	6.4500e-003	0.0000	266.7168
Total	0.1794	1.3981	1.3358	6.3000e-003	0.4144	4.8900e-003	0.4193	0.1122	4.6000e-003	0.1168	0.0000	588.3005	588.3005	0.0227	0.0000	588.8683

3.7 Framing, Finishing, Equipment, and Furnish - 2023**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Off-Road	0.0194	0.2007	0.1395	3.1000e-004		9.5900e-003	9.5900e-003		8.8200e-003	8.8200e-003	0.0000	27.0909	27.0909	8.7600e-003	0.0000	27.3099
Total	0.0194	0.2007	0.1395	3.1000e-004		9.5900e-003	9.5900e-003		8.8200e-003	8.8200e-003	0.0000	27.0909	27.0909	8.7600e-003	0.0000	27.3099

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3.7 Framing, Finishing, Equipment, and Furnish - 2023**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	4.8000e-003	0.1611	0.0463	5.3000e-004	0.0134	1.9000e-004	0.0135	3.8600e-003	1.8000e-004	4.0400e-003	0.0000	50.5340	50.5340	2.2900e-003	0.0000	50.5914
Worker	0.0210	0.0136	0.1483	4.6000e-004	0.0536	3.4000e-004	0.0539	0.0143	3.1000e-004	0.0146	0.0000	41.4023	41.4023	9.3000e-004	0.0000	41.4255
Total	0.0258	0.1746	0.1946	9.9000e-004	0.0670	5.3000e-004	0.0675	0.0181	4.9000e-004	0.0186	0.0000	91.9364	91.9364	3.2200e-003	0.0000	92.0169

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Off-Road	7.5800e-003	0.1549	0.1861	3.1000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003	0.0000	27.0908	27.0908	8.7600e-003	0.0000	27.3099
Total	7.5800e-003	0.1549	0.1861	3.1000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003	0.0000	27.0908	27.0908	8.7600e-003	0.0000	27.3099

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3.7 Framing, Finishing, Equipment, and Furnish - 2023**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	0.0000
Vendor	4.8000e-003	0.1611	0.0463	5.3000e-004	0.0134	1.9000e-004	0.0135	3.8600e-003	1.8000e-004	4.0400e-003	0.0000	50.5340	50.5340	2.2900e-003	0.0000	50.5914
Worker	0.0210	0.0136	0.1483	4.6000e-004	0.0536	3.4000e-004	0.0539	0.0143	3.1000e-004	0.0146	0.0000	41.4023	41.4023	9.3000e-004	0.0000	41.4255
Total	0.0258	0.1746	0.1946	9.9000e-004	0.0670	5.3000e-004	0.0675	0.0181	4.9000e-004	0.0186	0.0000	91.9364	91.9364	3.2200e-003	0.0000	92.0169

3.8 Architectural Coating - 2022**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Archit. Coating	2.1365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	2.1386	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.8 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	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	0.0000
Worker	2.1600e-003	1.4500e-003	0.0156	5.0000e-005	5.1400e-003	3.0000e-005	5.1700e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	4.1263	4.1263	1.0000e-004	0.0000	4.1287
Total	2.1600e-003	1.4500e-003	0.0156	5.0000e-005	5.1400e-003	3.0000e-005	5.1700e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	4.1263	4.1263	1.0000e-004	0.0000	4.1287

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Archit. Coating	2.1365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	2.1386	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.8 Architectural Coating - 2022**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	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	0.0000
Worker	2.1600e-003	1.4500e-003	0.0156	5.0000e-005	5.1400e-003	3.0000e-005	5.1700e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	4.1263	4.1263	1.0000e-004	0.0000	4.1287
Total	2.1600e-003	1.4500e-003	0.0156	5.0000e-005	5.1400e-003	3.0000e-005	5.1700e-003	1.3700e-003	3.0000e-005	1.4000e-003	0.0000	4.1263	4.1263	1.0000e-004	0.0000	4.1287

3.9 Landscaping - 2023**Unmitigated Construction On-Site**

	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
Category	tons/yr										MT/yr					
Off-Road	0.0442	0.4371	0.5988	9.1000e-004		0.0223	0.0223		0.0205	0.0205	0.0000	79.8654	79.8654	0.0258	0.0000	80.5111
Paving	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0546	0.4371	0.5988	9.1000e-004		0.0223	0.0223		0.0205	0.0205	0.0000	79.8654	79.8654	0.0258	0.0000	80.5111

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3.9 Landscaping - 2023**Unmitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	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	0.0000
Worker	2.5500e-003	1.6500e-003	0.0180	6.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.0357	5.0357	1.1000e-004	0.0000	5.0385
Total	2.5500e-003	1.6500e-003	0.0180	6.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.0357	5.0357	1.1000e-004	0.0000	5.0385

Mitigated Construction On-Site

	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
Category	tons/yr										MT/yr					
Off-Road	0.0224	0.4599	0.6894	9.1000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	79.8653	79.8653	0.0258	0.0000	80.5110
Paving	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0328	0.4599	0.6894	9.1000e-004		0.0261	0.0261		0.0261	0.0261	0.0000	79.8653	79.8653	0.0258	0.0000	80.5110

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3.9 Landscaping - 2023**Mitigated Construction Off-Site**

	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
Category	tons/yr										MT/yr					
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	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	0.0000
Worker	2.5500e-003	1.6500e-003	0.0180	6.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.0357	5.0357	1.1000e-004	0.0000	5.0385
Total	2.5500e-003	1.6500e-003	0.0180	6.0000e-005	6.5200e-003	4.0000e-005	6.5600e-003	1.7300e-003	4.0000e-005	1.7700e-003	0.0000	5.0357	5.0357	1.1000e-004	0.0000	5.0385

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	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
Category	tons/yr										MT/yr					
Mitigated	0.0432	0.2625	0.7160	2.9500e-003	0.2693	2.3200e-003	0.2716	0.0723	2.1700e-003	0.0744	0.0000	271.4059	271.4059	8.5500e-003	0.0000	271.6197
Unmitigated	0.0432	0.2625	0.7160	2.9500e-003	0.2693	2.3200e-003	0.2716	0.0723	2.1700e-003	0.0744	0.0000	271.4059	271.4059	8.5500e-003	0.0000	271.6197

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	100.80	100.80	100.80	722,817	722,817
General Light Industry	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	100.80	100.80	100.80	722,817	722,817

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted)	19.70	0.00	0.00	100.00	0.00	0.00	100	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.593730	0.035302	0.167493	0.109091	0.021115	0.005747	0.017044	0.037455	0.003901	0.001761	0.005404	0.001027	0.000929
General Light Industry	0.593730	0.035302	0.167493	0.109091	0.021115	0.005747	0.017044	0.037455	0.003901	0.001761	0.005404	0.001027	0.000929
Other Asphalt Surfaces	0.593730	0.035302	0.167493	0.109091	0.021115	0.005747	0.017044	0.037455	0.003901	0.001761	0.005404	0.001027	0.000929
Parking Lot	0.593730	0.035302	0.167493	0.109091	0.021115	0.005747	0.017044	0.037455	0.003901	0.001761	0.005404	0.001027	0.000929

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	101.0801	101.0801	0.0176	1.9600e-003	102.1054
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	102.4330	102.4330	0.0179	1.9900e-003	103.4720
NaturalGas Mitigated	0.0115	0.0993	0.0476	6.3000e-004		7.9600e-003	7.9600e-003		7.9600e-003	7.9600e-003	0.0000	114.0779	114.0779	2.1900e-003	2.0900e-003	114.7558
NaturalGas Unmitigated	0.0128	0.1100	0.0528	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003	0.0000	126.3768	126.3768	2.4200e-003	2.3200e-003	127.1278

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	2.07347e+006	0.0112	0.0955	0.0407	6.1000e-004		7.7200e-003	7.7200e-003		7.7200e-003	7.7200e-003	0.0000	110.6482	110.6482	2.1200e-003	2.0300e-003	111.3057
General Light Industry	294744	1.5900e-003	0.0145	0.0121	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7287	15.7287	3.0000e-004	2.9000e-004	15.8221
Other Asphalt Surfaces	0	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
Parking Lot	0	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		0.0128	0.1100	0.0528	7.0000e-004		8.8200e-003	8.8200e-003		8.8200e-003	8.8200e-003	0.0000	126.3768	126.3768	2.4200e-003	2.3200e-003	127.1278

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	1.87603e+006	0.0101	0.0864	0.0368	5.5000e-004		6.9900e-003	6.9900e-003		6.9900e-003	6.9900e-003	0.0000	100.1120	100.1120	1.9200e-003	1.8400e-003	100.7069
General Light Industry	261711	1.4100e-003	0.0128	0.0108	8.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	13.9659	13.9659	2.7000e-004	2.6000e-004	14.0489
Other Asphalt Surfaces	0	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
Parking Lot	0	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		0.0115	0.0993	0.0476	6.3000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	114.0779	114.0779	2.1900e-003	2.1000e-003	114.7558

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	937421	87.6947	0.0153	1.7000e-003	88.5842
General Light Industry	92289	8.6335	1.5100e-003	1.7000e-004	8.7211
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	65257.5	6.1048	1.0700e-003	1.2000e-004	6.1667
Total		102.4330	0.0179	1.9900e-003	103.4720

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	925440	86.5739	0.0151	1.6800e-003	87.4520
General Light Industry	89808.6	8.4015	1.4700e-003	1.6000e-004	8.4867
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	65257.5	6.1048	1.0700e-003	1.2000e-004	6.1667
Total		101.0801	0.0177	1.9600e-003	102.1054

6.0 Area Detail**6.1 Mitigation Measures Area**

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	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
Category	tons/yr										MT/yr					
Mitigated	2.0004	0.0333	2.5482	1.6100e-003		0.1189	0.1189		0.1189	0.1189	10.9415	7.4115	18.3530	0.0204	7.2000e-004	19.0769
Unmitigated	2.0004	0.0333	2.5482	1.6100e-003		0.1189	0.1189		0.1189	0.1189	10.9415	7.4115	18.3530	0.0204	7.2000e-004	19.0769

6.2 Area by SubCategory

Unmitigated

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1790					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.5538	0.0127	0.7625	1.5200e-003		0.1090	0.1090		0.1090	0.1090	10.9415	4.4942	15.4357	0.0176	7.2000e-004	16.0892
Landscaping	0.0540	0.0206	1.7857	9.0000e-005		9.8800e-003	9.8800e-003		9.8800e-003	9.8800e-003	0.0000	2.9173	2.9173	2.8200e-003	0.0000	2.9877
Total	2.0004	0.0333	2.5482	1.6100e-003		0.1189	0.1189		0.1189	0.1189	10.9415	7.4115	18.3530	0.0204	7.2000e-004	19.0769

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6.2 Area by SubCategory**Mitigated**

	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
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1790					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.5538	0.0127	0.7625	1.5200e-003		0.1090	0.1090		0.1090	0.1090	10.9415	4.4942	15.4357	0.0176	7.2000e-004	16.0892
Landscaping	0.0540	0.0206	1.7857	9.0000e-005		9.8800e-003	9.8800e-003		9.8800e-003	9.8800e-003	0.0000	2.9173	2.9173	2.8200e-003	0.0000	2.9877
Total	2.0004	0.0333	2.5482	1.6100e-003		0.1189	0.1189		0.1189	0.1189	10.9415	7.4115	18.3530	0.0204	7.2000e-004	19.0769

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	18.2310	0.5959	0.0143	37.3773
Unmitigated	18.2310	0.5959	0.0143	37.3773

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	15.637 / 9.85809	16.1040	0.5115	0.0123	32.5405
General Light Industry	2.58306 / 0	2.1270	0.0844	2.0100e-003	4.8368
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		18.2310	0.5959	0.0143	37.3773

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	15.637 / 9.85809	16.1040	0.5115	0.0123	32.5405
General Light Industry	2.58306 / 0	2.1270	0.0844	2.0100e-003	4.8368
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		18.2310	0.5959	0.0143	37.3773

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	44.4550	2.6272	0.0000	110.1354
Unmitigated	44.4550	2.6272	0.0000	110.1354

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	219	44.4550	2.6272	0.0000	110.1354
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		44.4550	2.6272	0.0000	110.1354

Yountville SNF - Proposed Project - Napa County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	219	44.4550	2.6272	0.0000	110.1354
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		44.4550	2.6272	0.0000	110.1354

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	0	0	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Yountville SNF - Proposed Project - Napa County, Annual

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/Mitigated**

	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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (0 - 11 HP)	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	0.0000	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

11.0 Vegetation

Veterans Home of California
Yountville Skilled Nursing Facility Project

Appendix C: Special-Status Species Lists

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Table 1: Special-status Plant Species Potentially Occurring on the Project Site

Species	Listing Status	Range in California	Habitat	Blooming Season	Potential to Occur
Franciscan onion (<i>Allium peninsulare</i> var. <i>franciscanum</i>)	CNPS 1B.2	Endemic to California. Found in coastal California in Mendocino, Santa Clara, San Mateo, and Sonoma counties.	Perennial herb found in cismontane woodland and valley and foothill grasslands, often on dry hillsides. Occurs at elevations from 170 to 1,000 feet.	May - June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. Some suitable habitat is present on the project site. However, the site is regularly mowed and the habitat is marginal due to development, non-native vegetation and human foot traffic on the site. This species has not been documented in Napa county.
Napa false indigo (<i>Amorpha californica</i> var. <i>napensis</i>)	CNPS 1B.2	Endemic to California. Found in Sonoma, Napa, Marin, and Monterey counties.	Perennial deciduous shrub found in openings in broadleaf upland forests, chaparral, and cismontane woodlands. Occurs at elevations from approximately 400 to 6,600 feet.	April - July	Low. There are four CNDDDB occurrences of Napa false indigo within five miles of the project site in the hills to the west of the site. Some suitable habitat is present on the project site. However, the site is regularly mowed and the habitat is marginal due to development, non-native vegetation and human foot traffic on the site. This species was not observed during the 2019 site visits. The site is outside of the usual elevation range for this species.
bent-flowered fiddleneck (<i>Amsinckia lunaris</i>)	CNPS 1B.2	Endemic to California. Found in Mendocino, Santa Clara, San Mateo, and Sonoma counties.	Annual herb found in clay, volcanic or serpentinite soils in cismontane woodland and valley and foothill grassland habitats from 170 to 1,000 feet.	(April) May – June	Low. No CNDDDB occurrences have been documented within 5 miles of the project site. Some suitable habitat is present on the project site. However, the site is regularly mowed and the habitat is marginal due to development, non-native vegetation and human foot traffic on the site. Some volcanic soils are present at the site but they may have been altered by development.
Clara Hunt's milk-vetch (<i>Astragalus claranus</i>)	FE; ST; CNPS 1B.1	Endemic to California. Found in Napa and Sonoma counties.	Annual herb found on open grassy hillsides, especially on exposed shoulders, in cismontane woodland, valley and foothill grasslands, and chaparral. Found in serpentine/volcanic, rocky, or thin clay soils. Occurs at elevations from approximately 250 to 900 feet.	March - May	None. No CNDDDB occurrences have been documented within 5 miles of the project site. Marginal habitat is present on the project site. Suitable soils for this species are not present on or near the site. The site is outside of the usual elevation range for this species.
alkali milkvetch (<i>Astragalus tener</i> var. <i>tener</i>)	CNPS 1B.2	Endemic to California. Known from Sacramento and San Joaquin valleys, San Francisco Bay area, and the inner ranges of the south coast.	Annual herb found on playas, valley and foothill grassland, vernal pools in alkaline soils. Occurs at elevations from sea level to 200 feet.	March – June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no mesic or alkaline soils on or near the site.
Rincon Ridge manzanita (<i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i>)	CNPS 1B.1	Endemic to California. Found in Sonoma and Napa counties.	Perennial evergreen shrub found in chaparral and cismontane woodland. Highly restricted to red rhyolites soil. Occurs at elevations from approximately 250 to 1,200 feet.	February - May	None. There is one CNDDDB occurrence of Rincon Ridge manzanita within 5 miles of the project site near Dry Creek approximately 1.5 mile west of the site. No manzanita species were observed on the site during the 2019 site visits. No suitable soils are present on the site.
big-scale balsamroot (<i>Balsamorhiza macrolepis</i>)	CNPS 1B.2	Endemic to California. Found in the Sierra Nevada foothills, Sacramento valley, and San Francisco Bay area, including Sonoma county.	Perennial herb found in chaparral, cismontane woodland, valley and foothill grassland on open grassy or rocky slopes. Sometimes found on serpentine. Occurs at elevations from sea level to 4,620 feet.	March - June	Low. No CNDDDB occurrences have been documented within 5 miles of the project site. Some suitable habitat is present on the project site. However, the site is regularly mowed and the habitat is marginal due to development, non-native vegetation and human foot traffic on the site.

Species	Listing Status	Range in California	Habitat	Blooming Season	Potential to Occur
Sonoma sunshine (<i>Blennosperma bakeri</i>)	FE; SE; CNPS 1B.1	Endemic to California. Known only from Sonoma county.	Annual herb found in valley and foothill grassland under mesic conditions and vernal pools. Occurs at elevations from approximately 66 to 132 feet.	February - April	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no mesic soils on or near the site.
narrow-anthered brodiaea (<i>Brodiaea leptandra</i>)	CNPS 1B.2	Endemic to California. Found in Lake, Napa, and Sonoma counties.	Perennial herb found in broadleaf upland forest, chaparral, cismontane woodland, valley and foothill grassland, and lower montane coniferous forest on volcanic soils. Occurs at elevations from approximately 360 to 3,000 feet.	May - July	Low. There are three CNDDDB occurrences of narrow-anthered brodiaea within five miles of the project site. One is south of Lake Hennessey and the others are in the hills to the west of the site. Some suitable habitat is present on the project site. However, the site is regularly mowed and the habitat is marginal due to development, non-native vegetation and human foot traffic on the site. The site is outside of the usual elevation range for this species.
small-flowered calycadenia (<i>Calycadenia micrantha</i>)	CNPS 1B.2	Endemic to California. Occurs in Colusa, Lake, Monterey, Napa, and Trinity counties.	Annual herb found in chaparral, valley and foothill grasslands on rocky talus or scree, and/or sparsely vegetated areas, sometimes on serpentine. Also in meadows or seeps on volcanic substrate. Occurs at elevations from approximately sea level to 5,000 feet.	June - September	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area.
Mead's owl's-clover (<i>Castilleja ambigua</i> var. <i>meadii</i>)	CNPS 1B.1	Endemic to California. Known only from Napa county.	Annual herb found in meadows and seeps, vernal pools on gravelly, volcanic, clay soils. Occurs at elevations from 1,485 to 1,567 feet.	April - May	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area.
Rincon Ridge ceanothus (<i>Ceanothus confusus</i>)	CNPS 1B.1	Endemic to California. Known only from Lake, Napa, and Sonoma counties.	Perennial evergreen shrub found in closed-cone coniferous forest, chaparral, and cismontane woodland on volcanic or serpentine substrates. Occurs at elevations from approximately 250 to 3,600 feet.	February - June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. Some volcanic soils are present at the site but they may have been altered by development. No Ceanothus species were observed on the site during the 2019 site visits.
Calistoga ceanothus (<i>Ceanothus divergens</i>)	CNPS 1B.2	Endemic to California. Found in Napa, Sonoma, and Lake counties.	Perennial evergreen shrub found in chaparral and cismontane woodlands, especially on rocky, serpentine or volcanic soils. Occurs at elevations from approximately 550 to 3,100 feet.	February - April	None. There is one CNDDDB occurrence of Rincon Ridge manzanita within 5 miles of the project site in the hills to the west of the site. Some volcanic soils are present at the site but they may have been altered by development. The site is outside of the usual elevation range for this species. No Ceanothus species were observed on the site during the 2019 site visits.
holly-leaved ceanothus (<i>Ceanothus purpureus</i>)	CNPS 1B.2	Endemic to California. Found in Napa, Shasta, Solano, Sonoma, and Trinity counties.	Perennial evergreen shrub found in chaparral and cismontane woodland. Occurs in rocky, volcanic soils. Occurs at elevations from approximately 400 to 2,100 feet.	February - June	None. There are five CNDDDB occurrences of holly-leaved ceanothus within five miles of the project site in the hills east of Yountville. Some volcanic soils are present at the site but they may have been altered by development. The site is outside of the usual elevation range for this species. No Ceanothus species were observed on the site during the 2019 site visits.

Species	Listing Status	Range in California	Habitat	Blooming Season	Potential to Occur
Sonoma ceanothus (<i>Ceanothus sonomensis</i>)	CNPS 1B.2	Endemic to California. Found in Napa and Sonoma counties.	Perennial evergreen shrub found in chaparral especially on sandy, serpentine, or volcanic soils. Occurs at elevations from approximately 700 to 2,600 feet.	February - April	None. There are six CNDDDB occurrences of Sonoma ceanothus within five miles of the project site in the hills west of the site. Some volcanic soils are present at the site but they may have been altered by development. The site is outside of the usual elevation range for this species. No Ceanothus species were observed on the site during the 2019 site visits.
serpentine cryptantha (<i>Cryptantha dissita</i>)	CNPS 1B.2	Endemic to California. Found in the outer and inner ranges of the north coast (Napa, Lack, and Sonoma counties) and Klamath Ranges.	Annual herb found in chaparral and foothill woodlands on rocky outcrops and gravelly slopes. Serpentine endemic. Occurs at elevations from approximately 1,300 to 1,900 feet.	April - June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no serpentine soils on or near the site.
dwarf downingia (<i>Downingia pusilla</i>)	CNPS 2B.2	Also, found outside of California. Found in the inner and outer ranges of the north coast (Sonoma and Napa counties), Sacramento Valley, and San Joaquin Valley.	Annual herb found in valley and foothill grassland in mesic conditions, and vernal pools. Occurs at elevations from approximately sea level to 1,610 feet.	March - May	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no mesic soils on or near the site.
Green’s narrow-leaved daisy (<i>Erigeron greenei</i>)	CNPS 1B.2	Endemic to California. Found in the outer north coast ranges (Napa and Sonoma counties).	Perennial herb found in chaparral, woodland and conifer forests on serpentine, volcanic soils or rocky alluvium. Occurs at elevations from approximately 1,500 to 5,280 feet.	May - September	None. There are three CNDDDB occurrences of Green’s narrow-leaved daisy within five miles of the project site at the Rector Reservoir, along Soda Creek, and along Redwood Creek. All of the occurrences are about four miles away from the site. There is no suitable habitat for this species in the project area. The site is outside of the usual elevation range for this species.
Jepson’s coyote-thistle (<i>Eryngium jepsonii</i>)	CNPS 1B.2	Endemic to California. Found in Alameda, Amador, Calaveras, Contra Costa, Fresno, Napa, San Mateo, Solano, Stanislaus, Tuolumne, and Yolo counties.	Perennial herb found in valley and foothill grassland, and vernal pools from 10 to 984 feet.	April - August	Low. There is one CNDDDB occurrence of Jepson’s coyote thistle within 5 miles of the project site at an unknown location near Yountville, mapped in 1923. Some suitable habitat is present on the project site. However, the site is regularly mowed and the habitat is marginal due to development, non-native vegetation and human foot traffic on the site.
San Joaquin spearscale (<i>Extriplex joaquinana</i>)	CNPS 1B.2	Endemic to California. Found in the inner ranges of the north coast (Napa county), central valley, central coast, San Francisco Bay area, and the inner ranges of the south coast.	Annual herb found in chenopod sub, meadows and seeps, playas, valley and foothill grassland in alkaline soils. Occurs at elevations from approximately sea level to 2,755 feet.	April - October	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no alkaline soils on or near the site.
congested-headed hayfield tarplant (<i>Hemizonia congesta</i> ssp. <i>congesta</i>)	CNPS 1B.2	Endemic to California. Found in Lake, Mendocino, Marin, San Francisco, San Mateo and Sonoma counties.	Annual herb found in valley and foothill grassland from 66 to 1,837 feet, sometimes near roadsides.	April - November	None. No CNDDDB occurrences have been documented within 5 miles of the project site, the most recent regional occurrence is from 1931, and this species is not known from Napa County.
two-carpellate western flax (<i>Hesperolinon bicarpellatum</i>)	CNPS 1B.2	Endemic to California. Found in Lake, Napa, and Sonoma counties.	Annual herb found in serpentine barrens at the edge of chaparral. Occurs at elevations from approximately 200 to 3,297 feet.	May - July	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no serpentine soils on or near the site.

Species	Listing Status	Range in California	Habitat	Blooming Season	Potential to Occur
Brewer's western flax (<i>Hesperolinon breweri</i>)	CNPS 1B.2	Endemic to California. Found in Napa, Solano, and Contra Costa counties.	Annual herb found in the chaparral, cismontane woodland, and valley and foothill grassland. Occasionally found in serpentine soils. Occurs at elevations from 100 to 3,100 feet.	May - July	Low. No CNDDDB occurrences have been documented within 5 miles of the project site, and no records exist for this species after 1959 in Napa County. Some suitable habitat is present on the project site. However, the site is regularly mowed and the habitat is marginal due to development, non-native vegetation and human foot traffic on the site.
Sharsmith's western flax (<i>Hesperolinon sharsmithiae</i>)	CNPS 1B.2	Endemic to California. Known only from Lake and Napa Counties.	Annual herb found in serpentine barrens in chaparral. Occurs at elevations from approximately 200 to 3,297 feet.	May - July	None. There are two CNDDDB occurrences of Sharsmith's western flax within five miles of the project site east of the Rector Reservoir, over 4 miles northeast of the site. There are no serpentine soils on or near the site.
thin-lobed horkelia (<i>Horkelia tenuiloba</i>)	CNPS 1B.2	Endemic to California. Found in the north county outer ranges (Sonoma and Mendocino counties) and San Francisco Bay area (Marin County).	Perennial herb found in openings in broadleaf upland forest, chaparral, valley and foothill grassland on sandy soils. Occurs at elevations from approximately sea level to 1,650 feet.	May - August	None. There is one CNDDDB occurrence of Jepson's coyote thistle within 5 miles of the project site nearly 5 miles west of the site in Sonoma County. There are no sandy soils on or near the site.
Northern California black walnut (<i>Juglans hindsii</i>)	CNPS 1B.1	Endemic to northern California. Historically found in Contra Costa, Lake, Napa, Sacramento, Solano, and Yolo counties; however, it is thought to be extirpated from Sacramento, Solano, and Yolo counties.	Perennial deciduous tree found in riparian habitats often associated with a creek or stream. Few native stands remain. Occurs at elevations from approximately sea level to 1,445 feet.	April - May	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area. No walnut trees were observed during the 2019 tree survey at the site.
Contra Costa goldfields (<i>Lasthenia conjugens</i>)	FE, CNPS 1B.1	Endemic to California. Found in Alameda, Contra Costa, Monterey, Marin, Napa, Solano and Sonoma counties.	Annual herb found in cismontane woodland, playas (alkaline), valley and foothill grassland, and vernal pools in mesic soils from 0 to 1,542 feet.	March - June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no mesic soils on or near the site.
Delta tule pea (<i>Lathyrus jepsonii</i> var. <i>jepsonii</i>)	CNPS 1B.2	Endemic to California. Found in Contra Costa, Napa, Sacramento, San Joaquin, Solano, Sonoma and Yolo counties.	Annual herb found in marshes and swamps (freshwater and brackish) from 0 to 16 feet.	May – July (August – September)	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area. The site is outside of the usual elevation range for this species.
Colusa layia (<i>Layia septentrionalis</i>)	CNPS 1B.2	Endemic to California. Found in Butte, Colusa, Glenn, Lake, Mendocino, Napa, Sonoma, Sutter, Tehama and Yolo counties.	Annual herb found in chaparral, cismontane woodland, and valley and foothill grassland in sandy or serpentine soils from 328 to 3,593 feet.	April -May	None. No CNDDDB occurrences have been documented within 5 miles of the project site. The project site does not contain sandy or serpentine soils. The site is outside of the usual elevation range for this species.
Jepson's leptosiphon (<i>Leptosiphon jepsonii</i>)	CNPS 1B.2	Endemic to California. Found in Sonoma, Lake, Napa, and Yolo counties.	Annual herb found in chaparral and cismontane woodland. Often in partially shaded grassy slopes on volcanic or serpentine substrate. Occurs at elevations from approximately 350 to 1,650 feet.	March - May	None. There is one CNDDDB occurrence of Jepson's leptosiphon within 5 miles of the project site at an unknown location about 1.5 miles west of Yountville, mapped in 1938. Some volcanic soils are present at the site but they may have been altered by development. The site is outside of the usual elevation range for this species.

Species	Listing Status	Range in California	Habitat	Blooming Season	Potential to Occur
Mason's lilaeopsis (<i>Lilaeopsis masonii</i>)	SR; CNPS 1B.1	Endemic to California. Occurs in the northeastern portion of the San Francisco Bay area in Alameda, Contra Costa, and Napa counties, as well as in Suisun Bay area, and the Sacramento-San Joaquin river delta, in Solano, San Joaquin, and Sacramento counties.	A perennial rhizomatous herb found in freshwater and brackish marshes and riparian scrub. Often found in tidal zones in muddy or silty soils formed through river deposition or river bank erosion. Occurs at elevations from sea level to approximately 32 feet.	April - November	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area.
Sebastopol meadowfoam (<i>Limnanthes vinculans</i>)	FE; SE; CNPS 1B.1	Endemic to California. Found in Napa and Sonoma counties.	Annual herb found in mesic meadows, vernal pools, and valley and foothill grasslands. Usually found in swales, wet meadows, or marshy areas in valley oak savanna on poorly drained clay and sandy loam soils. Occurs at elevations from approximately 50 to 1,000 feet.	April - May	None. There is one CNDDDB occurrence of Sebastopol meadowfoam within five miles of the project site in the Napa River Ecological Reserve, about 2 miles northeast of the site. There are no mesic soils on or near the site.
Cobb Mountain lupine (<i>Lupinus sericatus</i>)	CNPS 1B.2	Endemic to California. Found in Sonoma, Napa, Colusa, and Lake counties	Perennial herb found in chaparral, cismontane woodland, broadleaf upland forests, and lower montane coniferous forests. Often found in gravelly soils on open wooded slopes in stands of knobcone pine-oak woodland. Occurs at elevations from approximately 900 to 5,000 feet.	March - June	None. There are two CNDDDB occurrences of Cobb Mountain lupine within five miles of the project site in the hills west of the site, about 3.5 and nearly 5 miles from the site. There is no suitable habitat for this species in the project area.
Baker's navarretia (<i>Navarretia leucocephala</i> ssp. <i>bakeri</i>)	CNPS 1B.1	Endemic to California. Found in Colusa, Glenn, Lake, Lassen, Mendocino, Marin, Napa, Solano, Sonoma, Sutter, Tehama and Yolo counties.	Annual herb found in cismontane woodland, lower montane coniferous forest, meadows and seeps, valley and foothill grassland, and vernal pools in mesic soils from 16 to 5,709 feet.	April - July	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no mesic soils on or near the site.
few-flowered navarretia (<i>Navarretia leucocephala</i> ssp. <i>pauciflora</i>)	FE; ST; CNPS 1B.1	Endemic to California. Found in Napa and Lake counties.	Annual herb found in vernal pools, especially in volcanic ash flow and volcanic substrate. Occurs at elevations from approximately 1,300 to 2,800 feet.	May - June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no vernal pools on or near the project site.
Marin County navarretia (<i>Navarretia heterodoxa</i> ssp. <i>rosulata</i>)	CNPS 1B.2	Endemic to California. Found in Marin and Napa counties.	Annual herb found in closed-cone coniferous forest and chaparral in serpentinite, rocky soils from 656 to 2,083 feet.	May - July	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no serpentinite or rocky soils on or near the site. The site is outside of the usual elevation range for this species.
Sonoma beardtongue (<i>Penstemon newberryi</i> var. <i>sonomensis</i>)	CNPS 1B.3	Endemic to California. Found in Lake, Napa and Sonoma counties.	Perennial herb found in chaparral especially in crevices in rock outcrops and on talus slopes. Occurs at elevations from approximately 2,300 to 4,500 feet.	April - August	None. There is one CNDDDB occurrence of Sonoma breadtongue within five miles of the project site at the Rector Reservoir, about 3.8 miles northeast of the site. There is no suitable habitat in the project area.
California beaked-rush (<i>Rhynchospora californica</i>)	CRPR 1B.1	Endemic to California. Found in Butte, Marin, Napa and Sonoma counties.	Perennial rhizomatous herb found in bogs and fens, lower montane coniferous forest, meadows and seeps (seeps), and marshes and swamps (freshwater) from 148 to 3,314 feet.	May - July	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area.

Species	Listing Status	Range in California	Habitat	Blooming Season	Potential to Occur
Sanford's arrowhead (<i>Sagittaria sanfordii</i>)	CNPS 1B.2	Endemic to California. Found in Butte, Del Norte, El Dorado, Fresno, Merced, Mariposa, Marin, Napa, Placer, Sacramento, San Bernardino, Shasta, San Joaquin, Solano, Tehama, Tulare and Yuba counties.	Perennial rhizomatous herb found in marshes and swamps (assorted shallow freshwater) from 0 to 2,132 feet.	May – October (November)	None. There is one CNDDDB occurrence of Sanford's arrowhead within five miles of the project site near the intersection of Solano Avenue and Vineyard View Drive, about 0.6 mile east of the site. There is no suitable habitat for this species on or near the site.
Napa checkerbloom (<i>Sidalcea hickmanii</i> ssp. <i>napensis</i>)	CNPS 1B.1	Endemic to California. Found in Napa and Sonoma counties.	Perennial herb found in chaparral on rhylitic soils from 1,361 to 2,001 feet.	April - June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area. The site is outside of the usual elevation range for this species.
Keck's checkerbloom (<i>Sidalcea keckii</i>)	FE, CNPS 1B.1	Endemic to California. Found in Fresno, Merced, and counties, and possibly Colusa, Napa, Solano and Yolo counties.	Annual herb found in cismontane woodland, and valley and foothill grassland on clay or serpentine soils from 246 to 2,132 feet.	April – May (June)	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no clay or serpentine soils on or near the site. The site is outside of the usual elevation range for this species.
marsh checkerbloom (<i>Sidalcea oregana</i> ssp. <i>hydrophila</i>)	CNPS 1B.2	Endemic to California. Found in Colusa, Glenn, Lake, Mendocino, and Napa counties.	Perennial herb found in meadows and seeps, and riparian forest in mesic soils from 3,609 to 7,546 feet.	(June) July - August	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no mesic soils on or near the site. The site is outside of the usual elevation range for this species.
green jewel flower (<i>Streptanthus hesperidis</i>)	CNPS 1B.2	Endemic to California. Found in Colusa, Glenn, Lake, Napa, Sonoma and Yolo counties.	Annual herb found in chaparral (openings) and cismontane woodland in serpentinite, rocky soils from 427 to 2,493 feet.	May - July	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no serpentinite or rocky soils on or near the site. The site is outside of the usual elevation range for this species.
Suisun Marsh aster (<i>Symphyotrichum lentum</i>)	CNPS 1B.2	Endemic to California. Found in Contra Costa, Napa, Sacramento, San Joaquin, Solano and Yolo counties.	Perennial rhizomatous herb found in marshes and swamps (brackish and freshwater) from 0 to 10 feet.	April (May – November)	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area. The site is outside of the usual elevation range for this species.
Napa bluecurls (<i>Trichostema ruygtii</i>)	CNPS 1B.2	Endemic to California. Found in Lake, Napa, and Solano counties.	Annual herb found in open, sunny areas in cismontane woodland, chaparral, valley and foothill grasslands, vernal pools, or lower montane coniferous forests. Occurs at elevations from approximately 100 to 2,200 feet.	June - October	Low. There are five CNDDDB occurrences of Napa bluecurls within five miles of the project site in the hills east of Yountville, nearly 5 miles from the site. Some suitable habitat is present on the project site. However, the site is regularly mowed and the habitat is marginal due to development, non-native vegetation and human foot traffic on the site.
Showy rancheria clover (<i>Trifolium amoenum</i>)	FE; CNPS 1B.1	Endemic to California. Found in Marin, Sonoma, Napa, Solano, Santa Clara, and San Mateo counties. Thought to be extirpated in Napa, Solano, and Santa Clara counties.	Annual herb found in coastal bluff scrub and valley and foothill grassland in moist heavy soils. Sometimes occurs on serpentine soils. Often occurs in open sunny sites, sometimes in swales or along roadsides. Occurs at elevations from near sea level to 1,361 feet.	April - June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area.
Oval-leaved viburnum (<i>Viburnum ellipticum</i>)	CNPS 2B.3	Found in California, Oregon, and Washington. In California found from Fresno to Humboldt counties.	Perennial deciduous shrub found in chaparral, cismontane woodland, and lower montane coniferous forests. Occurs at elevations from approximately 700 to 4,600 feet.	May - June	None. No CNDDDB occurrences have been documented within 5 miles of the project site. The site is outside of the usual elevation range for this species. None were observed during the 2019 site visits.

Species	Listing Status	Range in California	Habitat	Blooming Season	Potential to Occur
<p>Federal: FE = Listed as endangered under the Federal Endangered Species Act.</p> <p>FT = Listed as threatened under the Federal Endangered Species Act.</p> <p>California: SE = Listed as endangered under the California Endangered Species Act.</p> <p>ST = Listed as threatened under the California Endangered Species Act.</p> <p>SR = Listed as rare in California.</p>		<p>Potential Occurrence explanations:</p> <p>Present: Species was observed on the project site, or recent species records (within five years) from literature are known within the site.</p> <p>High: The CNDDDB or other reputable documents record the occurrence of the species off-site, but within a 5-mile radius of the parcel and within the last 10 years. High-quality suitable habitat is present on the project site.</p> <p>Moderate: Species does not meet all terms of High or Low category. For example: CNDDDB or other reputable documents may record the occurrence of the species near but beyond a 5-mile radius of the project site, or some of the components representing suitable habitat are present within or adjacent to the site, but the habitat is substantially degraded or fragmented.</p> <p>Low: The CNDDDB or other documents may or may not record the occurrence of the species within a 5-mile radius of the parcel. However, few components of suitable habitat are present within or adjacent to the parcel.</p> <p>None: CNDDDB or other documents do not record the occurrence of the species within or reasonably near the parcel and within the last 10 years, and no or extremely few components of suitable habitat are present within or adjacent to the parcel; or the site is outside of specie’s range.</p>		<p>California Rare Plant Rank: 1B= Plants Rare, Threatened, or Endangered in California and Elsewhere 2= Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere</p> <p>0.1- Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)</p> <p>0.2- Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)</p> <p>0.3- Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)</p>	

Table 2: Special-status Wildlife Species Potentially Occurring on the Project Site

Species	Listing Status	Range in California	Habitat	Potential to Occur
<i>Invertebrates</i>				
Conservancy fairy shrimp (<i>Branchinecta conservatorio</i>)	FE	The U.S. Fish and Wildlife Service (USFWS) is aware of 8 populations in Butte and Tehama counties, Glenn County, Yolo County, Solano County, Stanislaus County, Merced County (2), and Ventura County.	Inhabits rather large, cool-water vernal pools with moderately turbid water.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There are no known populations of this species in Napa County and there are no vernal pools in the project area.
California freshwater shrimp (<i>Syncaris pacifica</i>)	FE	Endemic to Marin, Napa, and Sonoma counties. Found in low elevation, low gradient streams where riparian cover is moderate to heavy.	Shallow pools away from main streamflow. Winter: undercut banks with exposed roots. Summer: leafy branches touching water.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable habitat for this species in the project area.

Western bumblebee (<i>Bombus occidentalis</i>)	SC	Once common and widespread, species has declined precipitously from central California to southern British Columbia., perhaps from disease.	Western bumble bees use a wide variety of natural, agricultural, urban, and rural habitat types. They are now largely confined to high-elevation sites and areas east of the Cascade Crest. Western bumble bees require suitable nesting sites, overwintering sites for the queens, and nectar and pollen resources throughout the spring, summer, and fall.	Low. No CNDDDB occurrences have been documented within 5 miles of the project site, and there are no recent occurrences for this species in the project region. The habitat on the project site is marginal due to development and limited nectar resources.
Valley elderberry longhorn beetle (<i>Desmocerus californicus dimorphus</i>)	FT	Endemic to the Central Valley of California from southern Shasta County to Kern County.	Found in riparian habitats and associated upland habitats where elderberry (<i>Sambucus</i> sp.) including blue elderberry (<i>Sambucus mexicana</i>) grows.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. No elderberry shrubs were present at the site during the 2019 site visits.
Fish				
Delta smelt (<i>Hypomesus transpacificus</i>)	FT	Found only from the Suisun Bay upstream through the Delta in Contra Costa, Sacramento, San Joaquin, Solano and Yolo counties.	For a large part of their one-year life span, delta smelt live along the freshwater edge of the mixing zone (saltwater-freshwater interface), where the salinity is approximately 2 ppt. They spawn in shallow, fresh or slightly brackish water upstream of the mixing zone.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. The project site is outside of the range of this species and there is no suitable habitat in the project area.

Steelhead- central California coast Distinct Population Segment (DPS) (<i>Oncorhynchus mykiss irideus</i>)	FT	Includes all populations from the Russian River south to Soquel Creek and to, but not including, the Pajaro River. Populations in the San Francisco and San Pablo Basins are also included.	Juvenile steelhead develop for 1-4 years in freshwater before migrating downstream to the marine environment as smolts. After 1-4 years of growth at sea, adult steelhead return to their natal streams to spawn. This species occurs in cool, swift-moving streams with clean, non-silty gravel beds for spawning and egg incubation.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. No estuarine or riverine habitat is present on or adjacent to the site.
longfin smelt (<i>Spirinchus thaleichthys</i>)	FC, ST	Rivers and estuaries from Humboldt County to the San Francisco Bay Area.	Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 parts per thousand, but can be found in completely freshwater to almost pure seawater.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. No estuarine or riverine habitat is present on or near the site.
Amphibians and Reptiles				
California giant salamander (<i>Dicamptodon ensatus</i>)	CSSC	Known from wet coastal forests near streams and seeps from Mendocino County south to Monterey County, and east to Napa County.	Aquatic larvae found in cold, clear streams, occasionally in lakes and ponds. Adults known from wet forests under rocks and logs near streams and lakes.	Low. There are four CNDDDB occurrences of California giant salamander within five miles of the project site in the hills about 3 miles west of the site. There are seasonal or intermittent streams and freshwater ponds between 0.1 and 0.5 mile from the site. However, there is no aquatic habitat or wet forests on or adjacent to the site.

foothill yellow-legged frog (<i>Rana boylei</i>)	SC, CSSC	Occurs in California in the Coast Ranges from the Oregon border south to the Transverse Mountains in Los Angeles County, and along the western flank of the Sierra south to Kern County.	Inhabits partly shaded, shallow streams and rifles with a rocky substrate in a variety of habitats, including valley and foothill hardwood, riparian, mixed conifer, coastal scrub, mixed chaparral, and wet meadows. Elevation range extends from near sea level to 6,370 feet. Rarely encountered far from permanent water. Need at least some cobble-sized substrate for egg laying.	Moderate. There are four CNDDDB occurrences of foothill yellow-legged frog within five miles of the project site in a Dry Creek tributary to the Napa River that goes through Yountville east of the site from 1956, in Dry Creek 4 miles west of Yountville from 1973, along Redwood Creek over 4 miles northwest of the site from 1972 (possibly extirpated), and in a perennial seep that flows into a tributary of Dry Creek in 2003 (exact location suppressed). There is no aquatic habitat on the project site, however this species could disperse through the project site from aquatic habitat within 0.5 mile of the site.
California red-legged frog (<i>Rana draytonii</i>)	FT; CSSC	Endemic to drainages in California and northern Baja California.	Inhabits lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Must have access to estivation habitat such as animal burrows and other moist refuges.	Low. No CNDDDB occurrences have been documented within 5 miles of the project site. There are seasonal or intermittent streams and freshwater ponds between 0.1 and 0.5 mile from the site. However, this species is not known from the project area and there is no aquatic habitat on or adjacent to the site.

red-bellied newt (<i>Taricha rivularis</i>)	CSSC	Coastal drainages from Humboldt County south to Sonoma County, inland to Lake County. Isolated population of uncertain origin in Santa Clara County.	Lives in terrestrial habitats, juveniles generally underground, adults active at surface in moist environments. Will migrate over 0.5 mile to breed, typically in streams with moderate flow and clean, rocky substrate.	Low. No CNDDDB occurrences have been documented within 5 miles of the project site. There are seasonal or intermittent streams and freshwater ponds between 0.1 and 0.5 mile from the site. However, this species is not known from the project area and there is no aquatic habitat on or adjacent to the site.
Western pond turtle (<i>Emys marmorata</i>)	CSSC	Occurs from Oregon border of Del Norte and Siskiyou counties south along the coast to San Francisco Bay, inland through the Sacramento Valley and on western slope of Sierra Nevada. Absent from desert regions, except in the Mojave Desert along the Mojave River.	Inhabits permanent or nearly permanent water in ponds, marshes, rivers, streams, and irrigation canals with muddy or rocky bottoms. Elevation range extends from near sea level to 4,690 feet. Requires basking sites, such as partially submerged logs, rocks, mats of floating vegetation, or mud banks.	Low. There are two CNDDDB occurrences of western pond turtle within five miles of the project site in Conn Creek about 2.3 miles northeast of the site from 2003, and in two agricultural reservoirs about 3 miles southwest of the site from 1999. There are freshwater ponds on the golf course 0.2 to 0.3 mile from the site. However, there is development between the ponds and the project site and this species is unlikely to disperse so far from permanent water. There is no aquatic habitat on or adjacent to the site.
Birds				
tricolored blackbird (<i>Agelaius tricolor</i>)	ST, CSSC	Permanent residents of California. Occurs throughout California, particularly in the Central Valley and vicinity. Prefers living in colonies.	Nests in colonies in substrate near open water, and forages within a few kilometers of the colony. Breeding typically occurs from mid-March through early August.	None. No CNDDDB occurrences for tri-colored blackbird have been documented within 5 miles of the project site. There is no suitable nesting or foraging habitat for this species in the project area.

golden eagle (<i>Aquila chrysaetos</i>)	CFP; WL	Occurs in mountainous areas, cliffs, canyons, deserts, shrub lands, grasslands, oak woodlands, and forests throughout California.	Nests in cliff-walled canyons and large trees in open areas. Avoid nesting near urban habitat and generally do not nest in densely forested areas. Breeding generally occurs from late January through August.	Low. No CNDDDB occurrences for golden eagle have been documented within 5 miles of the project site. This species may pass through the project area or forage in nearby oak woodlands, but there is no suitable nesting habitat for this species in the project area.
Swainson's hawk (<i>Buteo swainsoni</i>)	ST	The greatest numbers are in in the Central Valley and in the Great Basin area of northeastern California, with a few Swainson's hawk territories located in Shasta Valley, the Owens Valley, and the Mohave Desert.	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Low. There is one CNDDDB occurrence of a Swainson's hawk nest within five miles of the project site nearly 5 miles northeast of the site in a valley oak along the Napa River. Marginal nesting habitat is present on the project site. The habitat is marginal due to development, human disturbance, and limited foraging habitat in the project area.
yellow rail (<i>Coturnicops noveboracensis</i>)	CSSC	The yellow rail is a very local breeder in the northeastern interior of California and is a winter visitor (early Oct to mid-Apr) on the coast and in the Suisun Marsh region.	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	None. No CNDDDB occurrences have been documented within 5 miles of the project site, or within the project region since 1898. There is no suitable nesting, roosting, or foraging habitat for this species in the project area.

black swift (<i>Cypseloides niger</i>)	CSSC	Found in the coastal belt of Santa Cruz and Monterey counties; central and southern Sierra Nevada; and the San Bernardino and San Jacinto mountains.	Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forages widely.	None. There is one CNDDDB occurrence of a black swift within five miles of the project site nearly 5 miles west of the site at the Napa-Sonoma county line from 1959. There is no suitable nesting, roosting, or foraging habitat for this species in the project area.
white-tailed kite (<i>Elanus leucurus</i>)	CFP	Year-round resident in lowland areas west of Sierra Nevada from head of Sacramento Valley south, including coastal valleys and foothills, to western San Diego County at Mexico border.	Inhabits low foothills or valley areas with scattered oaks and river bottoms or marshes next to deciduous woodland. Forages in open grasslands, meadows, agricultural fields, or marshes close to isolated, dense-topped trees for nesting and perching. Breeding typically occurs from February to October.	Moderate. Two CNDDDB occurrences for white-tailed kite have been documented within 5 miles of the project site, in the Napa River Ecological Reserve about 2 miles northeast of the site in 1986, and about 4 miles northeast of the site near Soda Creek in 1988 (possibly extirpated). Suitable nesting habitat is present on the project site and suitable foraging habitat is present surrounding the parcel.
saltmarsh common yellowthroat (<i>Geothlypis trichas sinuosa</i>)	CSSC	Superspecies of the common yellowthroat (<i>Geothlypis trichas</i>). Endemic to the fresh and salt water marshes of the San Francisco Bay region.	Breeds in woody swamps, brackish marshes, and freshwater marshes. Requires thick, continuous cover down to water surface for foraging. Requires tall grasses, tule patches, and willows for nesting. Breeding typically occurs from mid-March to late July.	None. No CNDDDB occurrences for saltmarsh common yellowthroat have been documented within 5 miles of the project site. There is no suitable nesting or foraging habitat for this species in the project area.

bald eagle (<i>Haliaeetus leucocephalus</i>)	FD; SE; CFP	In winter, occurs throughout California at lakes, reservoirs, rivers, and some rangelands and coastal wetlands. Breeding habitats are mainly in mountain and foothill forests and woodlands near reservoirs, lakes, and rivers. Most breeding territories are in northern California.	Nests within one mile of water often by lake margins, near rivers or on the ocean shore. Nests in large, dominant trees with open branches. California resident breeding pairs remain in California during the winter, typically in the vicinity of their nesting areas, except when winter conditions are too severe and they must move to lower elevations. Roosts communally in the winter. Breeding generally occurs from January through July or August.	None. No CNDDDB occurrences for bald eagle have been documented within 5 miles of the project site. There is no suitable nesting, roosting, or foraging habitat for this species in the project area.
San Pablo song sparrow (<i>Melospiza melodia samuelis</i>)	CSSC	Subspecies of the song sparrow (<i>Melospiza melodia</i>). Confined to tidal and muted tidal salt marshes fringing the San Pablo Bay in the northern reaches of the San Francisco Bay estuary.	Inhabits virtually all tidal salt marsh habitat in the San Pablo Bay. Requires dense vegetation for nesting sites, song perches, and cover from predators. Breeding typically occurs from early March to July.	None. No CNDDDB occurrences for San Pablo song sparrow have been documented within 5 miles of the project site. There is no suitable nesting or foraging habitat for this species in the project area.
osprey (<i>Pandion haliaetus</i>)	WL	Occurs throughout California in suitable habitats as a year-round resident in the northwest, a breeding population in the northeast, a winter resident in the southwest, and a migrant in the southeast.	Occurs at ocean shores, bays, freshwater lakes, and larger streams. Large nests built in tree-tops within 15 miles of a good fish-producing body of water.	None. No CNDDDB occurrences for osprey have been documented within 5 miles of the project site; regional occurrences are near Lake Berryessa. There is no suitable nesting or foraging habitat for this species in the project area.

double-crested cormorant (<i>Phalacrocorax auritus</i>) (nesting colony)	WL	Found over much of California year-round, but breeding populations occur mostly along the state's coast. A few nesting colonies also occur in inland California along lakes and rivers.	Colonial nester on coastal cliffs, offshore islands, and along lake margins in the interior of California. Nests along the coast in sequestered islets, usually on ground with sloping surface, or in tall trees along lake margins. Forages for fish and crustaceans in open water.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable nesting, roosting, or foraging habitat for this species in the project area.
purple martin (<i>Progne subis</i>)	CSSC	Occurs in California as a summer resident and migrant from mid-March to late September. Widely, but locally distributed in forest and woodland areas at low to intermediate elevations throughout most of the state.	Inhabits woodlands, low elevation coniferous forest of Douglas fir, ponderosa pine, and Monterey pine. Nests in old woodpecker cavities, or human-made structures. Nests often located in tall, isolated trees/snags.	Low. No CNDDDB occurrences for purple martin have been documented within 5 miles of the project site. There is no coniferous forest on or near the project site. The oak woodland on the site and woodpecker cavities could provide nesting habitat for this species. However, this species is not known from the project area and the habitat is marginal due to development and human disturbance.
bank swallow (<i>Riparia riparia</i>)	ST	Locally common to uncommon breeding season resident in northern and central California in riparian ecosystems, particularly rivers in the larger lowland valleys of northern California.	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable nesting or foraging habitat for this species in the project area.

Northern spotted owl (<i>Strix occidentalis caurina</i>)	FT	Inhabits forests in northwestern California as far south as the San Francisco Bay.	Forests characterized by dense canopy closure of mature and old-growth trees, abundant logs, standing snags, and live trees with broken tops.	None. No CNDDDB occurrences have been documented within 5 miles of the project site. There is no suitable nesting or foraging habitat for this species in the project area.
Mammals				
pallid bat (<i>Antrozous pallidus</i>)	CSSC	Locally common species of low elevations in California except the high Sierra from Shasta to Kern counties and northwest corner of the state from Del Norte and western Siskiyou counties, to northern Mendocino County.	Inhabits deserts, grasslands, shrublands, woodlands and forests from sea level up through mixed conifer forests. Most common in open dry habitats with rocky areas for roosting and foraging. Day roosts are in caves, crevices, mines, and occasionally in hollow trees and buildings. Day roosts must protect bats from high temperatures. Night roosts in more open sites, such as porches and open buildings. Very sensitive to disturbance of roosting sites.	Low. There is one CNDDDB occurrence of a pallid bat within five miles of the project site about 3.7 miles southwest of the site near Redwood Creek from 1935. Limited suitable roosting habitat exists (tree cavities and eaves of buildings) at the project site. The habitat is marginal due to human activity on the site.

Townsend's big-eared bat (<i>Corynorhinus townsendii</i>)	CSSC	Found throughout California in a wide variety of habitats, but the details of its distribution are not well known.	Found in all but subalpine and alpine habitats. Commonly found in mesic habitats in California. Roosts in the open, hanging from walls and ceilings in caves, mines, tunnels, buildings, or other human-made structures. Roosting sites are limited and the species is sensitive to human disturbance.	Low. No CNDDDB occurrences of Townsend's big-eared bat have been documented within 5 miles of the project site. Limited suitable roosting habitat exists (tree cavities and eaves of buildings) at the project site. The habitat is marginal due to human activity on the site.
Western red bat (<i>Lasiurus blossevillii</i>)	CSSC	Found throughout California from Shasta County to the Mexican border, west of the Sierra Nevada/Cascade crest and deserts. Winter range includes western lowlands and coastal regions south of the San Francisco Bay.	The western red bat roosts primarily in tree foliage, especially in cottonwood, sycamore, and other riparian trees or orchards, specifically walnut trees. The bat prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging, including grasslands, shrublands, and open woodlands. They are solitary by nature but will gather in larger nursery roosts during the summer.	None. No CNDDDB occurrences of western red bat documented within 5 miles of the project site. There is no suitable roosting habitat for this species in the project area.

American badger (<i>Taxidea taxus</i>)	CSSC	Occurs throughout California and the western United States and Canada. Locally, documented southwest of Napa (CNDDDB 1911).	Inhabits a variety of open habitats with friable soils. Most abundant in drier open stages of most shrub, forest, and herbaceous habitats with friable soils. Construct underground burrows for protection and sleeping.	None. No CNDDDB occurrences of American badger have been documented within 5 miles of the project site, and the last known occurrence from the project region is from 1911. There is no suitable habitat for this species on the site.
Federal: FE = Listed as endangered under the Federal Endangered Species Act. FT = Listed as threatened under the Federal Endangered Species Act. FD = Delisted under the Federal Endangered Species Act. FC = Candidate for listing under the Federal Endangered Species Act.			California: SE = Listed as endangered under the California Endangered Species Act. ST = Listed as threatened under the California Endangered Species Act. SC = Candidate for listing under the California Endangered Species Act. CSSC = Listed as a species of special concern in California. CFP = Listed as fully protected in California WL = Listed as a watchlist species in California	

Potential Occurrence explanations:

Present: Species was observed within the project site, or recent species records (within five years) from literature are known within the site.

High: The CNDDDB or other reputable documents record the occurrence of the species off-site, but within a 5-mile radius of the project site and within the last 10 years. High-quality suitable habitat is present on the site.

Moderate: Species does not meet all terms of High or Low category. For example: CNDDDB or other reputable documents may record the occurrence of the species near but beyond a 5-mile radius of the project site, or some of the components representing suitable habitat are present within or adjacent to the site, but the habitat is substantially degraded or fragmented.

Low: The CNDDDB or other documents may or may not record the occurrence of the species within a 5-mile radius of the project site. However, few components of suitable habitat are present within or adjacent to the site.

None: CNDDB or other documents do not record the occurrence of the species within or reasonably near the project site and within the last 10 years, and no or extremely few components of suitable habitat are present within or adjacent to the site; or the site is outside of specie's range.

Veterans Home of California
Yountville Skilled Nursing Facility Project

Appendix D: Cultural Resource Search Files

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CALIFORNIA
HISTORICAL
RESOURCES
INFORMATION
SYSTEM



ALAMEDA
COLUSA
CONTRA COSTA
DEL NORTE

HUMBOLDT
LAKE
MARIN
MENDOCINO
MONTEREY
NAPA
SAN BENITO

SAN FRANCISCO
SAN MATEO
SANTA CLARA
SANTA CRUZ
SOLANO
SONOMA
YOLO

Northwest Information Center
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Rohnert Park, California 94928-3609
Tel: 707.588.8455
nwic@sonoma.edu
<http://www.sonoma.edu/nwic>

3/4/2019

NWIC File No.: 18-1514

Robert Templar
MIG
2635 North 1st Street, Suite 149
San Jose, CA 95134

re: Yountville Skilled Nursing Facility Project 16152

The Northwest Information Center received your record search request for the project area referenced above, located on the Yountville & Rutherford USGS 7.5' quads. The following reflects the results of the records search for the project area and a 0.5 mile radius:

Resources within project area:	P-28-001874.
Resources within 0.5 mile radius:	P-28-001611, 001409, 000274, 000811, 000966, 001547, 000511, 001206, 001202, 001203, & 000442. (Copied the archaeological resource forms & P-28-001874.)
Reports within project area:	S-1970 & 40023 (only copied part of S-40023).
Reports within 0.5 mile radius:	S-19596, 21260, 36559, 38190, 466, 25177, 37781, 20115, 33573, 5801, 39006, 11250, 34122, 34983, 34117, 26703, 29800, 12254, & 1752.

Resource Database Printout (list):

Resource Database Printout (details):

Resource Digital Database Records:

Report Database Printout (list):

Report Database Printout (details):

Report Digital Database Records:

Resource Record Copies:

Report Copies:

OHP Historic Properties Directory:

Archaeological Determinations of Eligibility:

CA Inventory of Historic Resources (1976):

Caltrans Bridge Survey:

Ethnographic Information:

Historical Literature:

<input type="checkbox"/> enclosed	<input checked="" type="checkbox"/> not requested	<input type="checkbox"/> nothing listed
<input type="checkbox"/> enclosed	<input checked="" type="checkbox"/> not requested	<input type="checkbox"/> nothing listed
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<input type="checkbox"/> enclosed	<input checked="" type="checkbox"/> not requested	<input type="checkbox"/> nothing listed

Historical Maps:

Local Inventories:

GLO and/or Rancho Plat Maps:

Shipwreck Inventory:

☒ enclosed ☐ not requested ☐ nothing listed

☒ enclosed ☐ not requested ☐ nothing listed

☐ enclosed ☒ not requested ☐ nothing listed

☐ enclosed ☒ not requested ☐ nothing listed

***Notes:**

****** Current versions of these resources are available on-line:

Caltrans Bridge Survey: <http://www.dot.ca.gov/hq/structur/strmaint/historic.htm>

Soil Survey: <http://www.nrcs.usda.gov/wps/portal/nrcs/surveylist/soils/survey/state/?stateId=CA>

Shipwreck Inventory: <http://www.slc.ca.gov/Info/Shipwrecks.html>

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Lisa C. Hagel
Researcher

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Website: <http://www.nahc.ca.gov>



January 29, 2019

Robert Templar
MIG|TRA Environmental Services

Sent by Email: rtemplar@migcom.com
Number of Pages: 2

RE: Yountville Veterans Home Skilled Nursing Facility, Yountville, Napa County

Dear Mr. Templar:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. **The results were positive.** Please contact the Mishewal- Wappo Tribe of Alexander Valley on the attached list for more information. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. 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 on the list; if they cannot supply information, they might recommend others with specific knowledge.** By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: Sharaya.Souza@NAHC.ca.gov or directly at (916) 573-0168.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Sharaya Souza'.

Sharaya Souza
Analyst

Attachment

**Native American Heritage Commission
Native American Contacts List
1/29/2019**

Cortina Rancheria - Kletsel Dehe Band of Wintun Indians

Charlie Wright, Chairperson

P.O. Box 1630

Wintun / Patwin

Williams ,CA 95987

(530) 473-3274 Office

(530) 473-3301 Fax

Middletown Rancheria

Jose Simon III, Chairperson

P.O. Box 1035

Pomo

Middletown ,CA 95461

Lake Miwok

sshope@middletownrancheria.com

(707) 987-3670 Office

(707) 987-9091 Fax

Mishewal-Wappo Tribe of Alexander Valley

Scott Gabaldon, Chairperson

2275 Silk Road

Wappo

Windsor ,CA 95492

scottg@mishewalwappotribe.com

(707) 494-9159

Yocha Dehe Wintun Nation

Anthony Roberts, Chairperson

P.O. Box 18

Wintun (Patwin)

Brooks ,CA 95606

aroberts@yochadehe-nsn.gov

(530) 796-3400

(530) 796-2143 Fax

This list is current as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code, or Section 5097.98 of the Public Resources Code.

**This list is only applicable for contacting local Native American Tribes for the proposed:
Yountville Veterans Home Skilled Nursing Facility, Yountville, Napa County.**



April 2, 2019

Mishewal-Wappo Tribe of Alexander Valley
Scott Gabaldon, Chairperson
2275 Silk Road
Windsor 95492
scottg@mishewalwappotribe.com

Subject: Yountville Veterans Home Skilled Nursing Facility (YVHSNF) Project

Dear Mr. Gabaldon:

I am writing to you as it has been indicated by the Native American Heritage Commission (NAHC) from a Sacred Lands File (SLF) search that there are Native American cultural resources sensitive to the Mishewal-Wappo Tribe in the area for a proposed project.

The proposed project would consist of the development of a skilled nursing facility on the 615-acre Yountville Veterans Home Campus in the City of Yountville, Napa County, California.

The 240-bed skilled nursing facility would be approximately 285,000 square feet, comprising a multi-story building or buildings that include kitchens, dining rooms, exam rooms, nurses' stations, laundry facilities, perimeter fencing, resident outdoor spaces, parking, roadways, an emergency generator, and other site improvements and appurtenances.

It is anticipated the new skilled nursing facility will be constructed on an approximately nine-acre site west of, but adjacent to, Holderman Hospital. The area of disturbance has not yet been finalized, and the map included shows a larger area than will be impacted.

Project construction may require demolition and/or hazardous material abatement of existing structures and may also directly affect all or a portion of the site's Memorial Grove and other features.

The project requires completion of both CEQA and NEPA documents and must comply with Secretary of Interior Standards relative to the historic status of the campus, which comprises the most significant known site-specific environmental constraint. A CHRIS search will be completed prior to the preparation of environmental documents.

The project is on the Yountville 7.5 Minute USGS Map, with an approximate UTM location of UTM: 10S 555507.76 mn. E, 4249382.06 mn. N. The site is not part of the Public Land Survey System (PLSS), and therefore has no Township or Range. The site is situated between T6N R5W and T7N R4W.

The project location is depicted on USGS Yountville 7.5 Minute Quadrangle (Attachment 1). A detailed map of the project impact area is also included (Attachment 2).

Regarding the project, if you could give me further information on these resources so that the project can avoid impacts and/or add necessary mitigation measures as required, I would be most appreciative. Obviously the location of any sensitive resources will not be disclosed to the public in any future documentation and the nature of the resources will be kept confidential as required.

Please contact me by telephone at (650) 327-0429 x554, or by email at rtemplar@migcom.com. Thank you for your assistance in this matter. I look forward to hearing from you.

Sincerely,

Mr. Robert Templar,
Archaeologist
2635 North First Street, Suite 149
San Jose, CA 95134
(650) 327-0429 x554
rtemplar@migcom.com

Attachment 1: USGS 7.5 Minute Quadrangle

Attachment 2: Project Area



April 2, 2019

Yocha Dehe Wintun Nation
Anthony Roberts, Chairperson
P.O. Box 18
Brooks, California, 95606
aroberts@yochadehe-nsn.gov

Subject: Yountville Veterans Home Skilled Nursing Facility (YVHSNF) Project

Dear Mr. Roberts:

I am writing to inform you of a proposed project in the Town of Yountville. The project would consist of the development of a skilled nursing facility on the 615-acre Yountville Veterans Home Campus in the City of Yountville, Napa County, California.

The 240-bed skilled nursing facility would be approximately 285,000 square feet, comprising a multi-story building or buildings that include kitchens, dining rooms, exam rooms, nurses' stations, laundry facilities, perimeter fencing, resident outdoor spaces, parking, roadways, an emergency generator, and other site improvements and appurtenances.

It is anticipated the new skilled nursing facility will be constructed on an approximately nine-acre site west of, but adjacent to, Holderman Hospital. The area of disturbance has not yet been finalized, and the map included shows a larger area than will be impacted.

Project construction may require demolition and/or hazardous material abatement of existing structures and may also directly affect all or a portion of the site's Memorial Grove and other features.

The project requires completion of both CEQA and NEPA documents and must comply with Secretary of Interior Standards relative to the historic status of the campus, which comprises the most significant known site-specific environmental constraint. A CHRIS search will be completed prior to the preparation of environmental documents.

A Sacred Lands File (SLF) search has been completed for the project area to determine if there were any tribal resources discovered in the area. The search was returned with positive results, and the Mishewal- Wappo Tribe of Alexander Valley were identified as having specific information on the resources present. They have been contacted per the California Native American Heritage Commission (NAHC) recommendations.

The project is on the Yountville 7.5 Minute USGS Map, with an approximate UTM location of UTM: 10S 555507.76 mn. E, 4249382.06 mn. N.

The site is not part of the Public Land Survey System (PLSS), and therefore has no Township or Range. The site is situated between T6N R5W and T7N R4W.

The project location is depicted on USGS Yountville 7.5 Minute Quadrangle (Attachment 1). A detailed map of the project impact area is also included (Attachment 2).

If you have specific knowledge of any Native American cultural resources that could be affected by this project, please do not hesitate to contact me by telephone at (650) 327-0429 x554, or by email at rtemplar@migcom.com. Thank you for your assistance in this matter. I look forward to hearing from you.

Sincerely,

Mr. Robert Templar,
Archaeologist
2635 North First Street, Suite 149
San Jose, CA 95134
(650) 327-0429 x554
rtemplar@migcom.com

Attachment 1: USGS 7.5 Minute Quadrangle

Attachment 2: Project Area



April 2, 2019

Middletown Rancheria
Jose Simon III, Chairperson
P.O. Box 1035
Middletown, California, 95461

Subject: Yountville Veterans Home Skilled Nursing Facility (YVHSNF) Project

Dear Mr. Simon:

I am writing to inform you of a proposed project in the Town of Yountville. The project would consist of the development of a skilled nursing facility on the 615-acre Yountville Veterans Home Campus in the City of Yountville, Napa County, California.

The 240-bed skilled nursing facility would be approximately 285,000 square feet, comprising a multi-story building or buildings that include kitchens, dining rooms, exam rooms, nurses' stations, laundry facilities, perimeter fencing, resident outdoor spaces, parking, roadways, an emergency generator, and other site improvements and appurtenances.

It is anticipated the new skilled nursing facility will be constructed on an approximately nine-acre site west of, but adjacent to, Holderman Hospital. The area of disturbance has not yet been finalized, and the map included shows a larger area than will be impacted.

Project construction may require demolition and/or hazardous material abatement of existing structures and may also directly affect all or a portion of the site's Memorial Grove and other features.

The project requires completion of both CEQA and NEPA documents and must comply with Secretary of Interior Standards relative to the historic status of the campus, which comprises the most significant known site-specific environmental constraint. A CHRIS search will be completed prior to the preparation of environmental documents.

A Sacred Lands File (SLF) search has been completed for the project area to determine if there were any tribal resources discovered in the area. The search was returned with positive results, and the Mishewal- Wappo Tribe of Alexander Valley were identified as having specific information on the resources present. They have been contacted per the California Native American Heritage Commission (NAHC) recommendations.

The project is on the Yountville 7.5 Minute USGS Map, with an approximate UTM location of UTM: 10S 555507.76 mn. E, 4249382.06 mn. N.

The site is not part of the Public Land Survey System (PLSS), and therefore has no Township or Range. The site is situated between T6N R5W and T7N R4W.

The project location is depicted on USGS Yountville 7.5 Minute Quadrangle (Attachment 1). A detailed map of the project impact area is also included (Attachment 2).

If you have specific knowledge of any Native American cultural resources that could be affected by this project, please do not hesitate to contact me by telephone at (650) 327-0429 x554, or by email at rtemplar@migcom.com. Thank you for your assistance in this matter. I look forward to hearing from you.

Please note that this is not an official request for consultation under Section 106. You will be contacted by the Federal Lead Agency for the opportunity to consult on this project.

Sincerely,

Mr. Robert Templar,
Archaeologist
2635 North First Street, Suite 149
San Jose, CA 95134
(650) 327-0429 x554
rtemplar@migcom.com

Attachment 1: USGS 7.5 Minute Quadrangle

Attachment 2: Project Area



April 2, 2019

Cortina Rancheria - Kletsel Dehe Band of Wintun Indians
Charlie Wright, Chairperson
P.O. Box 1630
Williams, California, 95987

Subject: Yountville Veterans Home Skilled Nursing Facility (YVHSNF) Project

Dear Mr. Wright:

I am writing to inform you of a proposed project in the Town of Yountville. The project would consist of the development of a skilled nursing facility on the 615-acre Yountville Veterans Home Campus in the City of Yountville, Napa County, California.

The 240-bed skilled nursing facility would be approximately 285,000 square feet, comprising a multi-story building or buildings that include kitchens, dining rooms, exam rooms, nurses' stations, laundry facilities, perimeter fencing, resident outdoor spaces, parking, roadways, an emergency generator, and other site improvements and appurtenances.

It is anticipated the new skilled nursing facility will be constructed on an approximately nine-acre site west of, but adjacent to, Holderman Hospital. The area of disturbance has not yet been finalized, and the map included shows a larger area than will be impacted.

Project construction may require demolition and/or hazardous material abatement of existing structures and may also directly affect all or a portion of the site's Memorial Grove and other features.

The project requires completion of both CEQA and NEPA documents and must comply with Secretary of Interior Standards relative to the historic status of the campus, which comprises the most significant known site-specific environmental constraint. A CHRIS search will be completed prior to the preparation of environmental documents.

A Sacred Lands File (SLF) search has been completed for the project area to determine if there were any tribal resources discovered in the area. The search was returned with positive results, and the Mishewal- Wappo Tribe of Alexander Valley were identified as having specific information on the resources present. They have been contacted per the California Native American Heritage Commission (NAHC) recommendations.

The project is on the Yountville 7.5 Minute USGS Map, with an approximate UTM location of UTM: 10S 555507.76 mn. E, 4249382.06 mn. N.

The site is not part of the Public Land Survey System (PLSS), and therefore has no Township or Range. The site is situated between T6N R5W and T7N R4W.

The project location is depicted on USGS Yountville 7.5 Minute Quadrangle (Attachment 1). A detailed map of the project impact area is also included (Attachment 2).

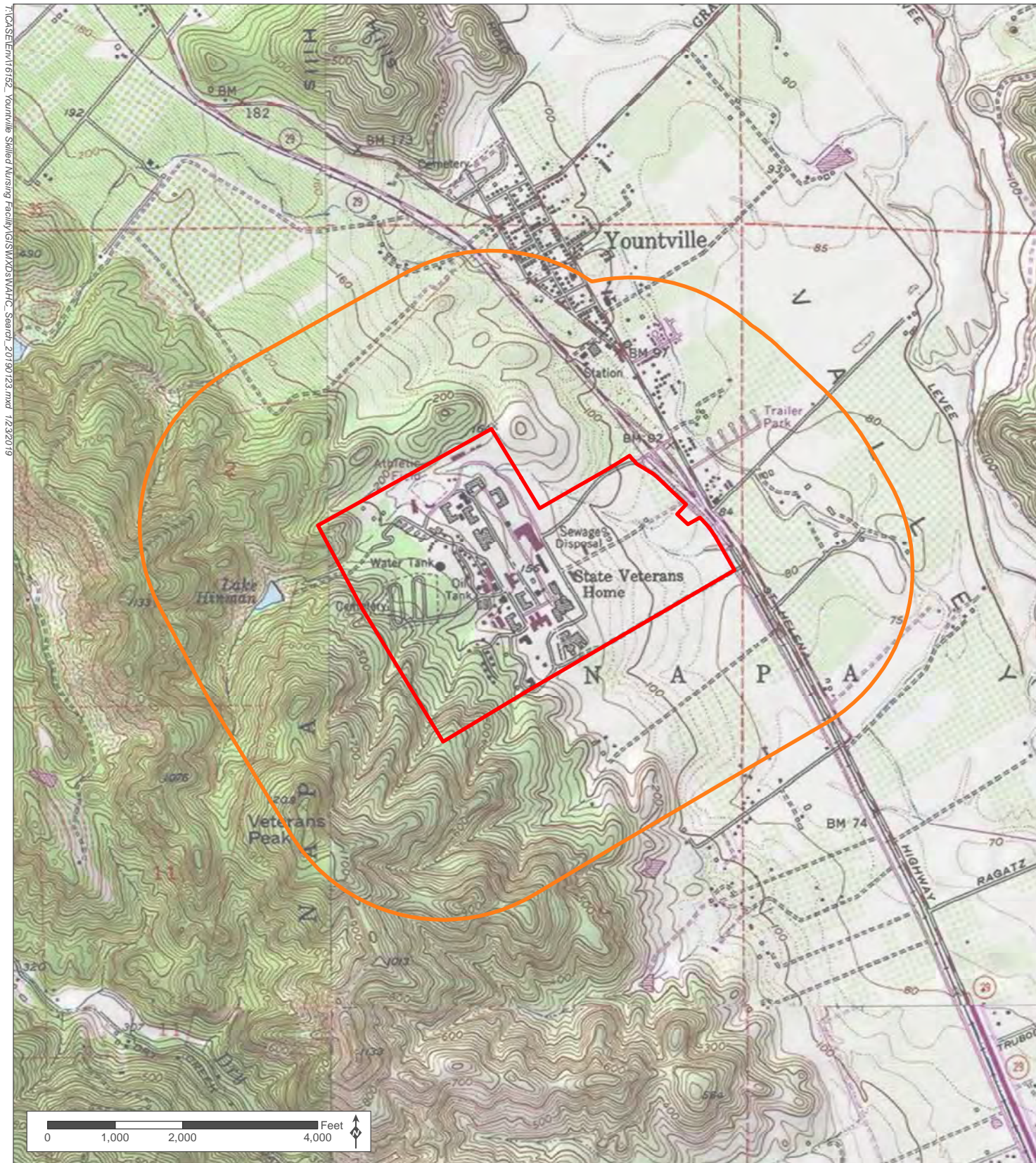
If you have specific knowledge of any Native American cultural resources that could be affected by this project, please do not hesitate to contact me by telephone at (650) 327-0429 x554, or by email at rtemplar@migcom.com. Thank you for your assistance in this matter. I look forward to hearing from you.

Sincerely,

Mr. Robert Templar,
Archaeologist
2635 North First Street, Suite 149
San Jose, CA 95134
(650) 327-0429 x554
rtemplar@migcom.com

Attachment 1: USGS 7.5 Minute Quadrangle

Attachment 2: Project Area



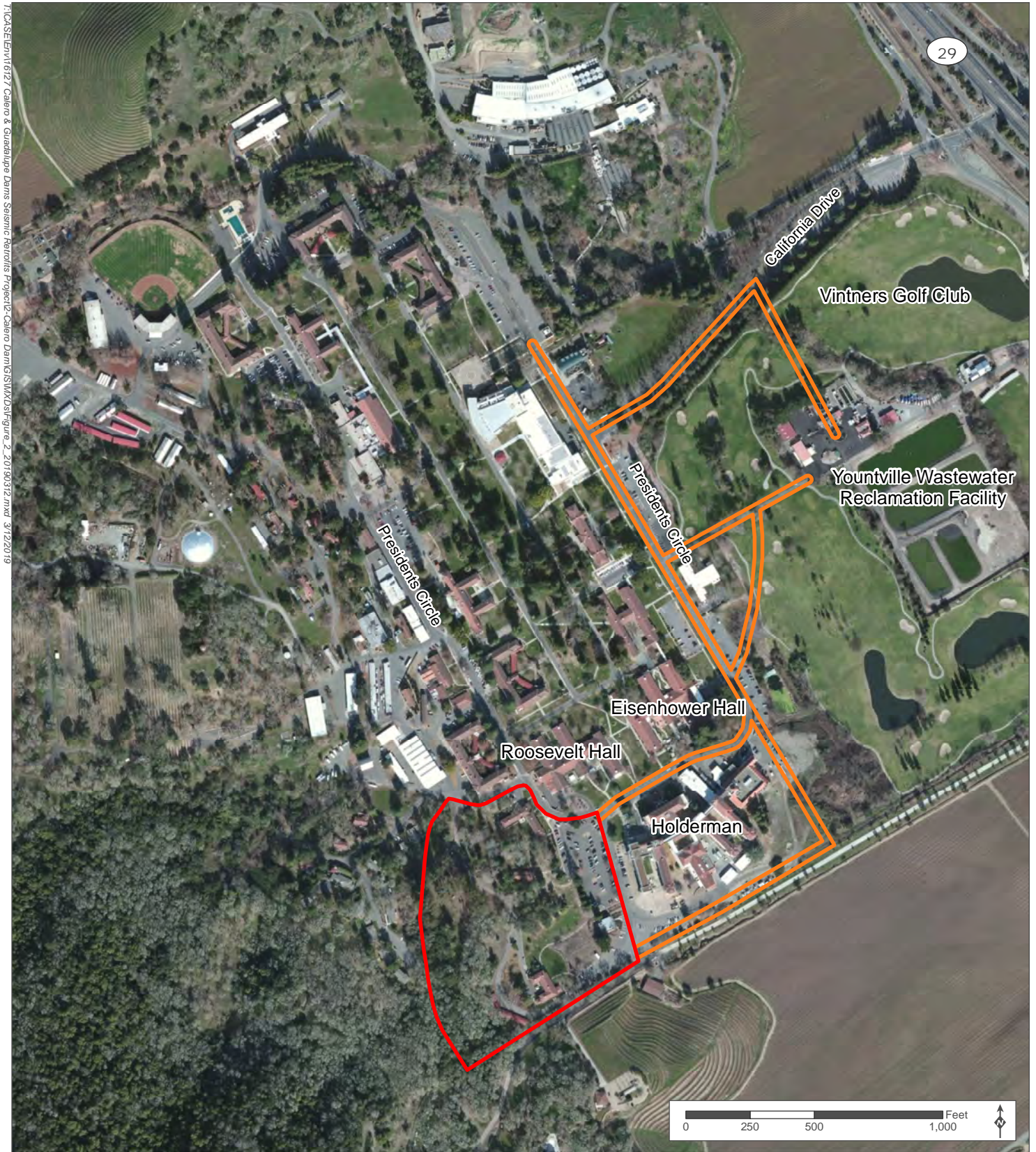
Source: ESRI 2017; MIG 2019

- ▭ Approximate Maximum Project Extent
- ▭ 0.5 Mile Radius Study Area

Attachment 1
Yountville 7.5 Minute USGS Quadrangle UTM:
10S 555507.76 mn. E, 4249382.06 mn. N

Scale 1:24,000

Note: This site is not part of the Public Land Survey System (PLSS), and therefore has no Township or Range. The site is situated between T6N R5W and T7N R4W



Source: ESRI 2017; MIG 2019

- Project Site
- Potential Utility Upgrade Area

Attachment 2 Project Area

*Middletown Rancheria
Tribal Historic Preservation Department
P.O. Box 1035
Middletown, CA 95461*

April 8, 2019

Via Electronic Mail

Mr. Robert Templar
MIG
2635 N. First Street, Suite 149
San Jose, California 95134

Subject: Yountville Veterans Home Skilled Nursing Facility (YVHSNF) Project

Dear Mr. Templar:

The Middletown Rancheria (Tribe) is in receipt of your letter dated April 2, 2019 regarding the above referenced matter.

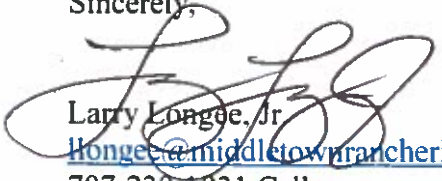
Though we have no specific comments at this time, should any new information or evidence of human habitation be found as the project progresses, we request that all work cease and that you contract us immediately. We do have a process to protect such important and sacred resources.

Thank you for the opportunity to provide comments to the above referenced project. The Tribe looks forward to continuing to be a part of the archaeological process.

Nothing herein should be construed to be a waiver of or limitation of any of the Tribe's rights in law, in equity, or otherwise. All rights, claims and remedies are specifically reserved.

Should you have questions, please do not hesitate to contact me.

Sincerely,


Larry Longee, Jr.
llongee@middletownrancheria.com
707-230-1031 Cell

Office Phone (707) 987-1315

Fax (707) 987-9091



YOCHA DEHE
CULTURAL RESOURCES

April 12, 2019

RECEIVED

APR 26 2019

MIG | TRA

MIG

Attn: Robert Templar, Archaeologist
2635 North First Street, Suite 149
San Jose, CA 95134

RE: Yountville Veterans Home Skilled Nursing Facility Project

Dear Mr. Templar:

Thank you for your project notification letter dated, April 2, 2019 regarding cultural information on or near the proposed Yountville Veterans Home Skilled Nursing Facility Project, Napa County. We appreciate your effort to contact us.

The Cultural Resources Department has reviewed the project and concluded that it is not within the aboriginal territories of the Yocha Dehe Wintun Nation. Therefore, we respectfully decline any comment on this project. However based on the information provided, please defer correspondence to the following:

Michewal - Wappo Tribe of Alexander Valley
Attn: Scott Gadaldon
2275 Silk Road
Windsor, CA 95492

Please refer to identification number YD - 04052019-02 in any future correspondence with Yocha Dehe Wintun Nation concerning this project.

Thank you for providing us with this notice and the opportunity to comment.

Sincerely,

Leland Kinter
Tribal Historic Preservation Officer

MIG Phone Record of Native American Consultation

Tribe	Person Spoken To	Contact Date	Response
Mishewal-Wappo Tribe of Alexander Valley	Scott Gabaldon	9/12/2019	Didn't know of any additional resources not identified by NWIC. Stated whole area is sensitive in terms of tribal resources
Cortina Rancheria			
Kletsel Dehe Band of Wintun Indians	Charlie Wright	9/12/2019	No comment; outside normal tribal area

Veterans Home of California
Yountville Skilled Nursing Facility Project

Appendix E: Noise Data

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VHC-Yountville Skilled Nursing Facility Project
Yountville, CA
Appendix: Technical Noise Data
Prepared by MIG November 2019

Table 1: Summary of Ambient Noise Monitoring Data (Site ST-1)

Site ST-1 (Near Center of Project Site)											
<u>Date</u>	<u>Time</u>	<u>Duration</u>	<u>LASeq</u>	<u>LASmin</u>	<u>LASmax</u>	<u>L(5)</u>	<u>L(10)</u>	<u>L(25)</u>	<u>L(50)</u>	<u>L(75)</u>	<u>L(90)</u>
3/14/2019	12:25 PM	10-minutes	46.1	38.3	59.7	50.6	48.8	45.9	43.2	41.6	40.6

Table 2: Summary of Ambient Noise Monitoring Data (Site ST-2)

Site ST-2 (Southwest Corner of Holderman Building)											
<u>Date</u>	<u>Time</u>	<u>Duration</u>	<u>LASeq</u>	<u>LASmin</u>	<u>LASmax</u>	<u>L(5)</u>	<u>L(10)</u>	<u>L(25)</u>	<u>L(50)</u>	<u>L(75)</u>	<u>L(90)</u>
3/14/2019	12:50 PM	10-minutes	47.3	40.1	60.0	53.2	50.2	46.3	43.9	42.8	41.9

VHC-Yountville Skilled Nursing Facility Project

Yountville, CA

Appendix: Technical Noise Data

Prepared by MIG November 2019

Table 3: Predicted Single Construction Equipment Noise Levels (Hourly Leq)

Equipment ^(A)	Reference Noise Level at 50 Feet (Lmax) ^(B)	Percent Usage Factor	Distance from Equipment Operation (in Feet) and Predicted Equipment Noise Level at Listed Distance (Hourly Leq) ^(C)												
			25	50	75	100	150	200	250	300	350	400	450	500	1000
Bulldozer	85	40%	87	81	77	75	71	69	67	65	64	63	62	61	55
Backhoe	80	40%	82	76	72	70	66	64	62	60	59	58	57	56	50
Compact Roller	80	20%	79	73	69	67	63	61	59	57	56	55	54	53	47
Concrete Mixer	85	40%	87	81	77	75	71	69	67	65	64	63	62	61	55
Crane	85	16%	83	77	74	71	67	65	63	61	60	59	58	57	51
Excavator	85	40%	87	81	77	75	71	69	67	65	64	63	62	61	55
Generator	82	50%	85	79	75	73	69	67	65	63	62	61	60	59	53
Grader	85	40%	87	81	77	75	71	69	67	65	64	63	62	61	55
Pneumatic tools	85	50%	88	82	78	76	72	70	68	66	65	64	63	62	56
Scraper	85	40%	87	81	77	75	71	69	67	65	64	63	62	61	55
Delivery Truck	85	40%	87	81	77	75	71	69	67	65	64	63	62	61	55
Vibratory Roller	80	20%	79	73	69	67	63	61	59	57	56	55	54	53	47

Notes:

(A) Equipment list is not meant to be exhaustive or indicative of every type of construction equipment that may operate on the site during construction. Rather, it is meant to be an approximation of the likely equipment types and equipment noise levels used and produced during project construction.

(B) Reference noise levels obtained from: 1) Caltrans 2013. *Technical Noise Supplement to the Traffic Noise Analysis Protocol*. Sacramento, CA. September 2011. 2) U.S. FTA 2018. *Transit Noise and Vibration Impact Assessment Manual*. FTA Report No. 0123. Washington, DC. September 2018.

(C) Estimate does not account for any atmospheric or ground attenuation factors, nor potential reflection from hard surfaces. Calculated noise levels based on Caltrans *Technical Noise Supplement to the Traffic Noise Analysis Protocol*: $Leq \text{ (hourly)} = L_{max} \text{ at 50 feet} - 20\log(D/50) + 10\log(UF)$, where: L_{max} = reference L_{max} from manufacturer or other source; D = distance of interest; UF = usage fraction or fraction of time period of interest equipment is in use.

VHC-Yountville Skilled Nursing Facility Project

Yountville, CA

Appendix: Technical Noise Data

Prepared by MIG November 2019

Table 4: Predicted Multiple Construction Equipment Noise Levels (Hourly Leq)

Equipment ^(A)	Reference Noise Level at 50 Feet (Lmax) ^(B)	Percent Usage Factor	Distance from Equipment Operation (in Feet) and Predicted Equipment Noise Level at Listed Distance (Hourly Leq) ^(C)												
			25	50	75	100	150	200	250	300	350	400	450	500	1000
Bulldozer	85	40%	90	84	80	78	74	72	70	68	67	66	65	64	58
Backhoe	80	40%	85	79	75	73	69	67	65	63	62	61	60	59	53
Compact Roller	80	20%	82	76	72	70	66	64	62	60	59	58	57	56	50
Concrete Mixer	85	40%	90	84	80	78	74	72	70	68	67	66	65	64	58
Crane	85	16%	86	80	77	74	70	68	66	64	63	62	61	60	54
Excavator	85	40%	90	84	80	78	74	72	70	68	67	66	65	64	58
Generator	82	50%	88	82	78	76	72	70	68	66	65	64	63	62	56
Grader	85	40%	90	84	80	78	74	72	70	68	67	66	65	64	58
Pneumatic tools	85	50%	91	85	81	79	75	73	71	69	68	67	66	65	59
Scraper	85	40%	90	84	80	78	74	72	70	68	67	66	65	64	58
Delivery Truck	85	40%	90	84	80	78	74	72	70	68	67	66	65	64	58
Vibratory Roller	80	20%	82	76	72	70	66	64	62	60	59	58	57	56	50

Notes:

(A) See Table 3, note (A).

(B) See Table 3, note (B).

(C) Predicted noise levels are from Table 3 , plus 3 dBA to account to two pieces of concurrent equipment operation.

VHC-Yountville Skilled Nursing Facility Project

Yountville, CA

Appendix: Technical Noise Data

Prepared by MIG November 2019

Table 5: Predicted Construction Equipment Noise Levels (PPV In/Sec)

Equipment ^(A)	Reference PPV at 25 Feet (In/Sec) ^(B)	Distance from Equipment Operation (in Feet) and Predicted Equipment Vibration Level at Listed Distance (PPV In/Sec) ^(C)									
		50	60	67	75	100	130	150	250	400	780
Small Bulldozer	0.003	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
Jackhammer	0.035	0.016	0.013	0.012	0.010	0.008	0.006	0.005	0.003	0.002	0.001
Loaded Truck	0.076	0.035	0.029	0.026	0.023	0.017	0.012	0.011	0.006	0.004	0.002
Large Bulldozer	0.089	0.042	0.034	0.030	0.027	0.019	0.015	0.012	0.007	0.004	0.002
Caisson Drilling	0.089	0.042	0.034	0.030	0.027	0.019	0.015	0.012	0.007	0.004	0.002
Hoe Ram	0.089	0.042	0.034	0.030	0.027	0.019	0.015	0.012	0.007	0.004	0.002
Vibratory Roller	0.21	0.098	0.080	0.071	0.063	0.046	0.034	0.029	0.017	0.010	0.005
Impact Pile Driver (Typical)	0.644	0.300	0.246	0.218	0.192	0.140	0.105	0.090	0.051	0.031	0.015
Impact Pile Driver (Max)	1.518	0.708	0.579	0.513	0.453	0.330	0.248	0.211	0.121	0.072	0.034
Sonic Pile Driver (Typical)	0.17	0.079	0.065	0.057	0.051	0.037	0.028	0.024	0.014	0.008	0.004
Sonic Pile Driver (Max)	0.734	0.342	0.280	0.248	0.219	0.160	0.120	0.102	0.058	0.035	0.017

Notes:

(A) Equipment list is not meant to be exhaustive or indicative of every type of construction equipment that may operate on the site during construction. Rather, it is meant to be an approximation of the likely equipment types and equipment vibration levels used and produced during project construction.

(B) Reference noise levels obtained from: 1) Caltrans 2013. *Transportation and Construction Vibration Guidance Manual*. Sacramento, CA. September 201. 2) U.S. FTA 2018. *Transit Noise and Vibration Impact Assessment Manual*. FTA Report No. 0123. Washington, DC. September 2018.

(C) Values for 25 feet are reference values contained in Caltrans' *Transportation and Construction Vibration Guidance Manual* and FTA's *Transit Noise and Vibration Impact Assessment Manual*. Estimated PPV calculated at other distances as follows: $PPV(D) = PPV(ref) * (25/D)^{1.1}$ where $PPV(D)$ = Estimated PPV at distance; $PPV(ref)$ = Reference PPV at 25 ft; D = Distance from equipment to receiver; and n = ground attenuation rate (1.1 for dense compacted hard soils). All distances are lateral distances and do not consider changes in topography.

VHC-Yountville Skilled Nursing Facility Project

Yountville, CA

Appendix: Technical Noise Data

Prepared by MIG November 2019

Table 6: Predicted Construction Equipment Noise Levels (VdB)

Equipment ^(A)	Reference PPV at 25 Feet (In/Sec) ^(B)	Distance from Equipment Operation (in Feet) and Predicted Equipment Vibration Level at Listed Distance (VdB) ^(C)									
		50	60	67	75	100	130	150	250	400	780
Small Bulldozer	58	49.0	46.6	45.2	43.7	39.9	36.5	34.7	28.0	21.9	13.2
Jackhammer	79	70.0	67.6	66.2	64.7	60.9	57.5	55.7	49.0	42.9	34.2
Loaded Truck	86	77.0	74.6	73.2	71.7	67.9	64.5	62.7	56.0	49.9	41.2
Large Bulldozer	87	78.0	75.6	74.2	72.7	68.9	65.5	63.7	57.0	50.9	42.2
Caisson Drilling	87	78.0	75.6	74.2	72.7	68.9	65.5	63.7	57.0	50.9	42.2
Hoe Ram	87	78.0	75.6	74.2	72.7	68.9	65.5	63.7	57.0	50.9	42.2
Vibratory Roller	94	85.0	82.6	81.2	79.7	75.9	72.5	70.7	64.0	57.9	49.2
Impact Pile Driver (Typical)	104	95.0	92.6	91.2	89.7	85.9	82.5	80.7	74.0	67.9	59.2
Impact Pile Driver (Max)	112	103.0	100.6	99.2	97.7	93.9	90.5	88.7	82.0	75.9	67.2
Sonic Pile Driver (Typical)	93	84.0	81.6	80.2	78.7	74.9	71.5	69.7	63.0	56.9	48.2
Sonic Pile Driver (Max)	105	96.0	93.6	92.2	90.7	86.9	83.5	81.7	75.0	68.9	60.2

Notes:

(A) See Table 5, note (A).

(B) See Table 5, note (B).

(C) Values for 25 feet are reference values contained in Caltrans, 2013a and FTA, 2018. Estimated Lv calculated as: $L_v(D) = L_v(25 \text{ feet}) - 30 \log(D/25)$ where $L_v(D)$ = estimated velocity level in decibels at distance, $L_v(25 \text{ feet})$ = RMS velocity amplitude at 25 f; and D = distance from equipment to receiver. All distances are lateral distances and do not consider changes in topography.