

County of Santa Cruz

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 **KATHLEEN MOLLOY PREVISICH, PLANNING DIRECTOR**

www.sccoplanning.com

NOTICE OF INTENT TO ADOPT A MITIGATED NEGATIVE DECLARATION

NOTICE OF PUBLIC REVIEW AND COMMENT PERIOD

Pursuant to the California Environmental Quality Act, the following project has been reviewed by the County Environmental Coordinator to determine if it has a potential to create significant impacts to the environment and, if so, how such impacts could be solved. A Negative Declaration is prepared in cases where the project is determined not to have any significant environmental impacts. Either a Mitigated Negative Declaration or Environmental Impact Report (EIR) is prepared for projects that may result in a significant impact to the environment.

Public review periods are provided for these Environmental Determinations according to the requirements of the County Environmental Review Guidelines. The environmental document is available for review at the County Planning Department located at 701 Ocean Street, in Santa Cruz. You may also view the environmental document on the web at www.sccoplanning.com under the Planning Department menu. If you have questions or comments about this Notice of Intent, please contact Matt Johnston of the Environmental Review staff at (831) 454-3201

The County of Santa Cruz does not discriminate on the basis of disability, and no person shall, by reason of a disability, be denied the benefits of its services, programs or activities. If you require special assistance in order to review this information, please contact Bernice Shawver at (831) 454-3137 (TDD number (831) 454-2123 or (831) 763-8123) to make arrangements.

PROJECT: Hochler Minor Land Division

APP #: 141228

APN(S): 067-041-14

PROJECT DESCRIPTION: The project consists of dividing a 37,314 square foot parcel (0.86 acres) into three parcels of 11,835 net developable square feet (Lot 1; 12,315 net developable square feet (Lot 2); and 10,861 net developable square feet (Lot 3), with a right-of-way of 2,303 square feet. The proposal does not include Architectural Plans as no building is contemplated as part of this Minor Land Division. Design Guidelines have been submitted with the application to guide future building of two single-family dwellings on each of the two newly-created parcels.

PROJECT LOCATION: The proposed project is located on the north side of Lockewood Lane within the Carbonera planning area in the unincorporated County of Santa Cruz.

EXISTING ZONE DISTRICT: R-1-10

APPLICANT: Richard Hochler OWNER: Richard Hochler

PROJECT PLANNER: Annette Olson

EMAIL: annette.olson@santacruzcounty.us ACTION: Negative Declaration with Mitigations

REVIEW PERIOD: July 2, 2015 through July 21, 2015.

This project will be considered at a public hearing by the Planning Commission. The time, date and location have not been set. When scheduling does occur, these items will be included in all public hearing notices for the project.



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 **KATHLEEN MOLLOY PREVISICH, PLANNING DIRECTOR** http://www.sccoplanning.com/

MITIGATED NEGATIVE DECLARATION

Project: Hochler Minor Land Division

APN(S): 067-041-14

Project Description: The project consists of dividing a 37,314 square foot parcel (0.86 acres) into three parcels of 11,835 net developable square feet (Lot 1; 12,315 net developable square feet (Lot 2); and 10,861 net developable square feet (Lot 3), with a right-of-way of 2,303 square feet. The proposal does not include Architectural Plans as no building is contemplated as part of this Minor Land Division. Design Guidelines have been submitted with the application to guide future building of two single-family dwellings on each of the two newly-created parcels.

Project Location: The proposed project is located on the north side of Lockewood Lane within the

Carbonera planning area in the unincorporated County of Santa Cruz.

Owner: Richard Hochler Applicant: Richard Hochler Staff Planner: Annette Olson

Email: annette.olson@santacruzcounty.us

This project will be considered at a public hearing by the Planning Commission. The time, date and location have not been set. When scheduling does occur, these items will be included in all public hearing notices for the project.

California Environmental Quality Act Mitigated Negative Declaration Findings:

Find, that this Mitigated Negative Declaration reflects the decision-making body's independent judgment and analysis, and; that the decision-making body has reviewed and considered the information contained in this Mitigated Negative Declaration and the comments received during the public review period; and, that revisions in the project plans or proposals made by or agreed to by the project applicant would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur; and, on the basis of the whole record before the decision-making body (including this Mitigated Negative Declaration) that there is no substantial evidence that the project as revised will have a significant effect on the environment. The expected environmental impacts of the project are documented in the attached Initial Study on file with the County of Santa Cruz Clerk of the Board located at 701 Ocean Street, 5th Floor, Santa Cruz, California.

Review Period Ends: July 21, 2015	
	Date:
	TODD SEXAUER, Environmental Coordinator
	/931\



County of Santa Cruz

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 **KATHLEEN MOLLOY PREVISICH, PLANNING DIRECTOR**

www.sccoplanning.com

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) INITIAL STUDY/ENVIRONMENTAL CHECKLIST

Date: June 22, 2015 Application Number: 141228

Project Name: Hochler Minor Land Div. Staff Planner: Annette Olson

I. OVERVIEW AND ENVIRONMENTAL DETERMINATION

APPLICANT: Richard Hochler APN(s): 067-041-14

OWNER: Richard Hochler SUPERVISORAL DISTRICT: 5th

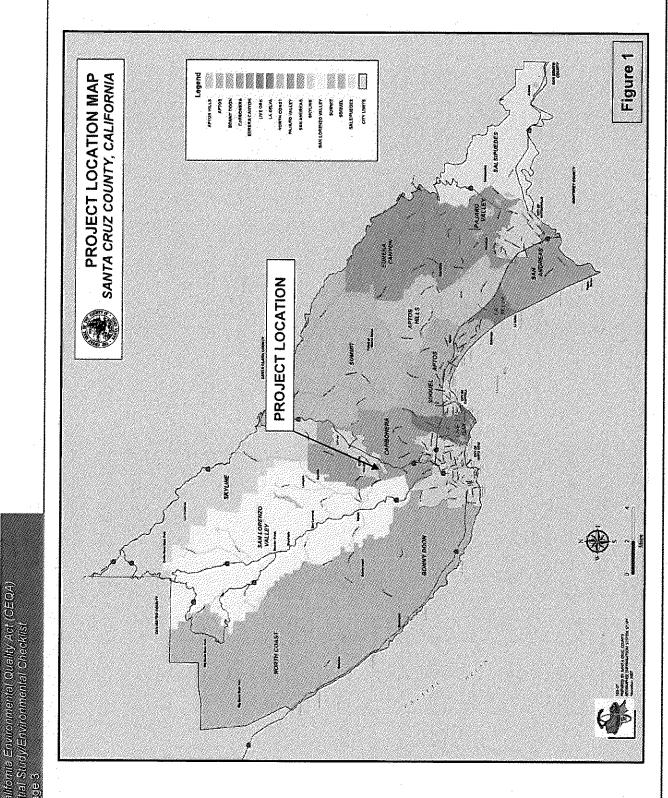
PROJECT LOCATION: The proposed project is located on the north side of Lockewood Lane within the Carbonera planning area in the unincorporated County of Santa Cruz. The County of Santa Cruz is bounded on the north by San Mateo County, on the south by Monterey and San Benito counties, on the east by Santa Clara County, and on the south and west by the Monterey Bay and the Pacific Ocean.

SUMMARY PROJECT DESCRIPTION: The project consists of dividing a 37,314 square foot parcel (0.86 acres) into three parcels of 11,835 net developable square feet (Lot 1); 12,315 s.f. net developable square feet (Lot 2); and 10,861 net developable square feet (Lot 3), with a right-of-way of 2,303 square feet. The proposal does not include Architectural Plans as no building is contemplated as part of this Minor Land Division (see Figure 2 below). Design Guidelines have been submitted with the application to guide future building of two single-family dwellings on each of the two newly-created parcels.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED: All of the following potential environmental impacts are evaluated in this Initial Study. Categories that are marked have been analyzed in greater detail based on project specific information.

	Aesthetics and Visual Resources	Land Use and Planning	
	Agriculture and Forestry Resources	Mineral Resources	
	Air Quality	Noise	
\boxtimes	Biological Resources	Population and Housing	
	Cultural Resources	Public Services	
	Geology and Soils	Recreation	
	Greenhouse Gas Emissions	Transportation/Traffic	
	Hazards and Hazardous Materials	Utilities and Service Systems	
	Hydrology/Water Supply/Water Quality	Mandatory Findings of Significance	

DIS	CRETIONARY APPROVAL(S) BEING C	ONS	IDERED:
	General Plan Amendment		Coastal Development Permit
\boxtimes	Land Division		Grading Permit
	Rezoning		Riparian Exception
\boxtimes	Development Permit		LAFCO Annexation
	Sewer Connection Permit	\boxtimes	Other: Roadside/Roadway Exception
	IER PUBLIC AGENCIES WHOSE APPR ncing approval, or participation agree		
<u>Pern</u>	nit Type/Action	Age	ncy
Encr	oachment Permit	City	of Scotts Valley
DEI	ERMINATION:		
On t	the basis of this initial evaluation:		
	I find that the proposed project COU environment, and a NEGATIVE DECLA	LD N RATI	OT have a significant effect on the ON will be prepared.
	I find that although the proposed projection environment, there will not be a significant the project have been made or agreed NEGATIVE DECLARATION will be prepared.	ant e	ffect in this case because revisions in the project proponent. A MITIGATED
	I find that the proposed project MAY had and an ENVIRONMENTAL IMPACT RE	ave a	significant effect on the environment, I is required.
	I find that the proposed project MAY "potentially significant unless mitigated one effect 1) has been adequately an applicable legal standards, and 2) has based on the earlier analysis as ENVIRONMENTAL IMPACT REPORT effects that remain to be addressed.	imp alyzed bee des	act on the environment, but at least d in an earlier document pursuant to n addressed by mitigation measures cribed on attached sheets. An
	I find that although the proposed projectionment, because all potentially standards, and (b) have been avoided NEGATIVE DECLARATION, including imposed upon the proposed project, not	ignific VE D or mit revisi	eant effects (a) have been analyzed ECLARATION pursuant to applicable igated pursuant to that earlier EIR or ons or mitigation measures that are
TOD	D SEXAUER, Environmental Coordinator	:	Date





This page intentially left blank.

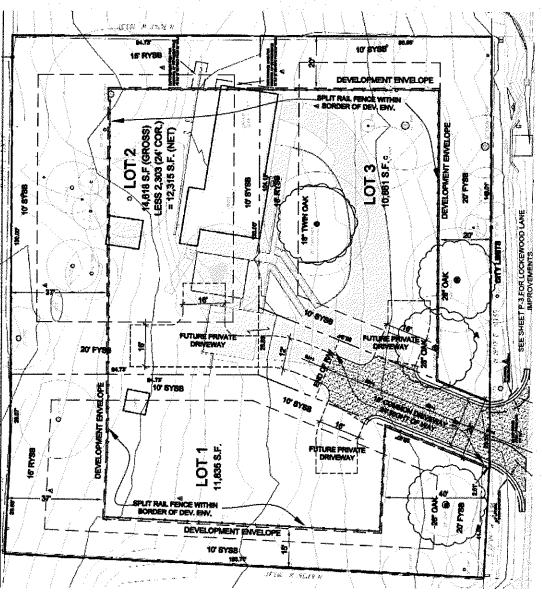


Figure 2: Project Site Plan

Application Number: 141228



This page intentially left blank.

II. BACKGROUND INFORMATION **EXISTING SITE CONDITIONS:** Parcel Size (acres): 37,314 s.f. (.86 acres) Existing Land Use: Residential Vegetation: Oak woodland, Ponderosa pine Slope in area affected by project: 🔀 0 - 30% 🗌 31 – 100% 🦳 N/A Nearby Watercourse: Camp Evers Creek Distance To: 1,708 feet to the west **ENVIRONMENTAL RESOURCES AND CONSTRAINTS:** Water Supply Watershed: Mapped Fault Zone: None mapped Groundwater Recharge: Scenic Corridor: Mapped No Timber or Mineral: Not Mapped Historic: No Agricultural Resource: Not Mapped Archaeology: Yes **Biologically Sensitive Habitat:** Noise Constraint: Zayante No Sandhills Habitat -IPHCP area; Oak Woodland Fire Hazard: **Electric Power Lines:** SRA-Mod No Floodplain: Solar Access: No Available Erosion: Solar Orientation: High Available **Potential** Landslide: Hazardous Materials: Not mapped None known Liquefaction: Other: Not mapped SERVICES: Fire Protection: Scotts Valley **Drainage District:** None **School District:** Scotts Valley **Project Access:** Lockewood Ln. Sewage Disposal: Scotts Valley Water Supply: San Lorenzo Valley Water District PLANNING POLICIES: Zone District: R-1-10 Special Designation: n/a General Plan: R-UL **Urban Services Line:** ⊠ Inside Outside

Outside

Inside

Coastal Zone:

ENVIRONMENTAL SETTING AND SURROUNDING LAND USES:

Natural Environment

Santa Cruz County is uniquely situated along the northern end of Monterey Bay approximately 55 miles south of the City of San Francisco along the Central Coast. The Pacific Ocean and Monterey Bay to the west and south, the mountains inland, and the prime agricultural lands along both the northern and southern coast of the county create limitations on the style and amount of building that can take place. Simultaneously, these natural features create an environment that attracts both visitors and new residents every year. The natural landscape provides the basic features that set Santa Cruz apart from the surrounding counties and require specific accommodations to ensure building is done in a safe, responsible and environmentally respectful manner.

The California Coastal Zone affects nearly one third of the land in the urbanized area of the unincorporated County with special restrictions, regulations, and processing procedures required for development within that area. Steep hillsides require extensive review and engineering to ensure that slopes remain stable, buildings are safe, and water quality is not impacted by increased erosion. The farmland in Santa Cruz County is among the best in the world, and the agriculture industry is a primary economic generator for the County. Preserving this industry in the face of population growth requires that soils best suited to commercial agriculture remain active in crop production rather than converting to other land uses.

PROJECT BACKGROUND:

The subject property is located on Lockewood Lane, a road maintained by the City of Scotts Valley. The parcel to be divided is developed with a single-family dwelling and related improvements. The surrounding area is developed with single-family homes, developed at an urban low density. The parcel is zoned R-1-10, as are the surrounding properties in the neighborhood. The General Plan designation for the subject and adjacent lots is Urban Residential-Low Density (R-UL). The subject site is located within the Urban Services Line. The parcels across the street from the project site are located within the City of Scotts Valley.

The lot slopes down slightly from west to east. The majority of the parcel is vegetated with a combination of oak and ponderosa pine trees. The soil consists of silty sand and sand and constitutes Zayante Sandhills Habitat, which potentially provides habitat for several state and federally listed endangered plant and animal species. The site is located within the Interim Programmatic Habitat Conservation Plan (IPHCP) area. Pursuant to the IPHCP and the approval of the Santa Cruz County Board of Supervisors, Minor Land Divisions within the IPHCP are allowed so long as the total area of disturbance is limited to 15,000 square feet total.

DETAILED PROJECT DESCRIPTION:

The project description is based on a Tentative Map prepared by Robert L. DeWitt and Associates dated June 2015. The project consists of dividing a 37,314 square foot parcel (0.86 acres) into three parcels of 11,835 net developable square feet (Lot 1); 12,315 s.f. net developable square feet (Lot 2); and 10,861 net developable square feet (Lot 3), with a right-of-way of 2,303 square feet. The proposal does not include Architectural Plans as no building is contemplated as part of this Minor Land Division. Design Guidelines have been submitted with the application to guide future building of two single-family dwellings on each of the two newly-created parcels.

The Parcel Map for the Minor Land Division would state that all future development for the newly-created parcels shall be limited to no more than 15,000 square feet of total disturbance, to include grading, drainage improvements, utility trenching, placement of impervious surfaces or structures, and landscaping. This 15,000 square feet of new disturbance is in addition to the existing 6,685 s.f. area of disturbance created by the existing single-family dwelling and associated improvements.

As this proposal does not include the construction of any structures or improvements, no grading or drainage plans have been submitted with the application. Conditions of approval require all future development to maintain existing drainage patterns via retention and infiltration of additional runoff and to maintain pre-development runoff levels.

The General Plan land use designation for the site, R-UL (Urban Low Density Residential) allows a density range of 4.4 to 7.2 units per net developable acre, which corresponds to lot size requirements of 6,000 to 10,000 square feet of net developable parcel area. Due to the presence of sensitive Sandhills Habitat throughout the entire parcel, further division is not feasible. Therefore the proposed configuration provides the maximum density possible for this parcel.

The proposed parcels would obtain water and sewer service from the San Lorenzo Valley Water District and the City of Scotts Valley respectively.

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

10000000000000000000000000000000000000							
	II. ENVIRONMENTAL REVIEW CHECKLIST						
	AESTHETICS AND VISUAL RESOURCES uld the project:	i					
1.	Have a substantial adverse effect on a scenic vista?				\boxtimes		
desig	Discussion: The project would not directly impact any public scenic resources, as designated in the County's General Plan (1994), or obstruct any public views of these visual resources.						
2.	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				\boxtimes		
view	cussion: The project site is not located alor shed area, scenic corridor, within a designal ic highway. Therefore, no impact is anticipat	ted scenic r	_		-		
3.	Substantially degrade the existing visual character or quality of the site and its surroundings?						
	cussion: The existing visual setting is a subusigned and landscaped so as to fit into this set	_	oorhood. T	he propose	d project		
4.	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			\boxtimes			
this :	eussion: The project would create an incremincrease would be small, and would be simithe surrounding existing uses			0 0			

Potentially Significant Impact

Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

B. AGRICULTURE AND FORESTRY RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental he nd he

Fore Fore	cts, lead agencies may refer to information estry and Fire Protection regarding the states and Range Assessment Project and the states carbon measurement methodology profesoria Air Resources Board. Would the project	n compiled l nte's invento e Forest Le vided in Fo	by the Cali pry of fores gacy Asse	ifornia Depa st land, inc essment Pr	artment o luding the oject; and
1.	Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?				
Unio purs Age no Imp	cussion: The project site does not contain que Farmland, or Farmland of Statewide In quant to the Farmland Mapping and Monito ncy. In addition, the project does not contain Prime Farmland, Unique Farmland, Farmland, ortance would be converted to a non-agrical ect implementation.	nportance as oring Progra a Farmland of land of Sta	shown on m of the of f Local Im tewide or	the maps California F portance. T Farmland	prepared Resources herefore, of Local
2.	Conflict with existing zoning for agricultural use, or a Williamson Act contract?				
min is n	cussion: The project site is zoned R-1-10 (simum parcel size) which is not an agricultura of under a Williamson Act Contract. Thereing zoning for agricultural use, or a Williams	al zone. Addrefore, the	litionally, t project doe	he project s	ite's land lict with
3.	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?				

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Discussion: The project is not located near land designated as Timber Resource. Therefore, the project would not affect the resource or access to harvest the resource in the future.

4.	Result in the loss of forest land or conversion of forest land to non-forest use?			\boxtimes
	cussion : No forest land occurs on the projeussion under B-3 above. No impact is anticipated	in the imm	ediate vicii	nity. See
5 .	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?			

Discussion: The project site and surrounding area within a radius of two miles does not contain any lands designated as Prime Farmland, Unique Farmland, Farmland of Statewide Importance or Farmland of Local Importance as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency. Therefore, no Prime Farmland, Unique Farmland, Farmland of Statewide, or Farmland of Local Importance would be converted to a non-agricultural use. In addition, the project site contains no forest land, and no forest land occurs within about one mile of the proposed project site. Therefore, no impacts are anticipated.

C. AIR QUALITY

The significance criteria established by the Monterey Bay Unified Air Pollution Control District (MBUAPCD) has been relied upon to make the following determinations. Would the project:

1.	Conflict with or obstruct implementation of			\boxtimes	
	the applicable air quality plan?	L	لسا		

Discussion: The project would not conflict with or obstruct any long-range air quality plans of the Monterey Bay Unified Air Pollution Control District (MBUAPCD, Attachment 10). Because general construction activity related emissions (i.e., temporary sources) are accounted for in the emission inventories included in the plans, impacts to air quality plan objectives are less than significant. See C-2 below.

General estimated basin-wide construction-related emissions are included in the MBUAPCD emission inventory (which, in part, form the basis for the air quality plans cited below) and are not expected to prevent long-term attainment or maintenance of the ozone and particulate matter standards within the North Central Coast Air Basin (NCCAB).

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Therefore, temporary construction impacts related to air quality plans for these pollutants from the proposed project would be less than significant, and no mitigation would be required, since they are presently estimated and accounted for in the District's emission inventory, as described below. No stationary sources would be constructed that would be long-term permanent sources of emissions.

2.	Violate any air quality standard or			\square	
	contribute substantially to an existing or	لسسا			لـــا
	projected air quality violation?				

Discussion: Santa Cruz County is located within the North Central Coast Air Basin (NCCAB). The NCCAB does not meet state standards for ozone (reactive organic gases [ROGs] and nitrogen oxides [NOx]) and fine particulate matter (PM₁₀). Therefore, the regional pollutants of concern that would be emitted by the project are ozone precursors and PM₁₀.

Ozone is the main pollutant of concern for the NCCAB. The primary sources of ROG within the air basin are on- and off-road motor vehicles, petroleum production and marketing, solvent evaporation, and prescribed burning. The primary sources of NOx are on- and off-road motor vehicles, stationary source fuel combustion, and industrial processes. In 2010, daily emissions of ROGs were estimated at 63 tons per day. Of this, area-wide sources represented 49 percent, mobile sources represented 36 percent, and stationary sources represented 15 percent. Daily emissions of NOx were estimated at 54 tons per day with 69 percent from mobile sources, 22 percent from stationary sources, and 9 percent from area-wide sources. In addition, the region is "NOx sensitive," meaning that ozone formation due to local emissions is more limited by the availability of NOx as opposed to the availability of ROGs (MBUAPCD, 2013b).

PM₁₀ is the other major pollutant of concern for the NCCAB. In the NCCAB, highest particulate levels and most frequent violations occur in the coastal corridor. In this area, fugitive dust from various geological and man-made sources combines to exceed the standard. Nearly three quarters of all NCCAB exceedances occur at these coastal sites where sea salt is often the main factor causing exceedance (MBUAPCD, 2005). In 2005 daily emissions of PM₁₀ were estimated at 102 tons per day. Of this, entrained road dust represented 35 percent of all PM₁₀ emission, windblown dust 20 percent, agricultural tilling operations 15 percent, waste burning 17 percent, construction 4 percent, and mobile sources, industrial processes, and other sources made up 9 percent (MBUAPCD, 2008).

Given the modest amount of new traffic that would be generated by the project there is no indication that new emissions of ROGs or NOx would exceed MBUAPCD thresholds for these pollutants; and therefore, there would not be a significant contribution to an existing air quality violation.

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

X

No Impact

Project construction may result in a short term, localized decrease in air quality due to generation of PM₁₀. However, standard dust control best management practices, such as periodic watering, would be implemented during construction to avoid significant air quality impacts from the generation of PM₁₀.

3. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Discussion: Project construction would have a limited and temporary potential to contribute to existing violations of California air quality standards for ozone and PM₁₀ primarily through diesel engine exhaust and fugitive dust. However, the Santa Cruz monitoring station has not had any recent violations of federal or state air quality standards mainly through dispersion of construction-related emission sources. BMPs and BACT described above under C-2 would ensure emissions remain below a level of significance. Therefore, the proposed project would not result in a cumulatively considerable net increase in criteria pollutants. The impact on ambient air quality would be less than

4. Expose sensitive receptors to substantial pollutant concentrations?

Discussion: The proposed land division would not generate substantial pollutant concentrations. Emissions from future construction activities represent temporary impacts that are typically short in duration. Impacts to sensitive receptors would be less than significant.

5. Create objectionable odors affecting a substantial number of people?

Discussion: California ultralow sulfur diesel fuel with a maximum sulfur content of 15 ppm by weight would be used in all diesel-powered equipment, which minimizes emissions of sulfurous gases (sulfur dioxide, hydrogen sulfide, carbon disulfide, and carbonyl sulfide). Therefore, no objectionable odors are anticipated from construction activities associated with the proposed project, and no mitigation measures would be required. The proposed project would not create objectionable odors affecting a substantial number of people; therefore, impacts are expected to be less than significant.

significant.

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 15	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
D. BIOLOGICAL RESOURCES Would the project:				
1. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife, or U.S. Fish and Wildlife Service?				

Discussion:

Zayante Sandhills Habitat

The site contains Zayante Sandhills Habitat which is a sensitive habitat and has the potential to support federally and state protected species. Of particular concern for the subject parcel is the potential for incidental take of the endangered Mount Hermon June Beetle (MHJB) as the result of the proposed land division. The subject parcel is located within the Interim Programmatic Habitat Conservation Plan area which allows the project to be mitigated by buying credits from the Zayante Sandhills Conservation Bank (Bank). The Bank was established in cooperation with the U.S. Fish & Wildlife Service to provide mitigation for small-scale development located within Sandhills Habitat that has been degraded by dense development. Bank properties support a number of state and federally-listed plant and animal species and the purchase of credits provides a funding mechanism to manage and protect the habitat in perpetuity.

One requirement for using the Bank is limiting disturbance to 15,000 square feet per parcel of record. In this case, that disturbance area would be divided up among the three proposed parcels. A development envelope corresponding to the maximum 15,000 square feet disturbance area would be delineated on the parcel map, subject to approval by Environmental Planning staff, prior to map recordation.

Additionally, conditions of approval require the construction of temporary fencing and signage prior to the start of any ground disturbance. Pre-construction meetings are also required prior to construction and all workers at the site would participate in a tailgate session to learn about the endangered beetle, its habitat, protective measures, and procedures to follow if any individuals of the MHJB are actually observed at the project site during the course of all construction-related activities. The tailgate session shall be conducted by a person knowledgably about the MHJB and its habitats, and approved by the U.S. Fish & Wildlife Service to monitor MHJB during construction. The approved monitor shall also act as a construction monitor during the erection of the temporary fencing, initial demolition, grading, and excavation activities.

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

The approved monitor would also periodically visit the project site throughout the construction period to insure that no impacts occur to areas outside the development envelope. The monitor shall have the authority to immediately stop any activity that does not comply with the conditions of the IPHCP, and to order any reasonable measures to avoid the MHJB.

The measures outlined below would also serve to protect any possible occurrence of other protected animal species on site. According to the Dr. Jodi McGraw, no protected plant species were observed on site.

Because the conservation value of the Conservation Bank habitat is considered much greater than that at the project site, and in consideration of the pre-construction protection measures and Declarations of Restriction to be recorded on the deed of each newly created parcel, the potential to significantly impact the biotic resources as a result of the proposed land division has been mitigated to a less than significant level

Mitigation Measures

- BIO-1: Prior to ground disturbance, the developer shall purchase credits from the Zayante Sandhills Conservation Bank for each square footage of disturbed area.
- BIO-2: On each new parcel of record, the property owner shall record a Declaration of Biotic Restriction acknowledging the sensitive habitat and restoration areas (template included as Attachment 3). The development envelope shall also be memorialized in the Declaration. Additional mitigation measures are incorporated into the Declaration of Restriction, such as requirements for implementing the Restoration Plan, restrictions against removal of native Sandhills plant species, the prohibition of ground disturbing activities outside of the development envelope, the requirement to construct a permanent split rail fence at the edge of the development envelope to demarcate the restoration area, and restrictions on the use of permanent outdoor lighting that may attract MHJB.
- BIO-3: Prior to any ground disturbance, temporary fencing shall be placed at the edge of the development envelope and signage will be installed alerting workers to stay out of the restoration area and noticing that the area is a sensitive habitat.
- BIO-4: Prior to any ground disturbance, a pre-construction meeting shall be held. All workers at the site would participate in a tailgate session to learn about the endangered beetle, its habitat, protective measures, and procedures to follow if any individuals of the MHJB are actually observed at the project site during the course of all construction-related activities. The tailgate session shall be conducted by a person knowledgably about the MHJB and its habitats, and approved by the U.S. Fish & Wildlife Service to monitor MHJB during construction. The approved monitor shall also act as a construction monitor during the erection of the

Less than Significant Impact

No impact

temporary fencing, initial demolition, grading, and excavation activities.

The approved monitor would also periodically visit the project site throughout the construction period to insure that no disturbance occurs to areas outside the development envelope. The monitor shall have the authority to immediately stop any activity that does not comply with the HCP, and to order any reasonable measures to avoid the MHIB.

BIO-5: The Restoration Plan by Jodi M. McGraw, PhD, dated December 24, 2014 (Attachment 4) shall be implemented, including:

Biomass Removal: All invasive plant biomass, including trunks, branches, leaves, fruits and seeds shall be disposed of offsite at a green waste recycling facility or other suitable location. Wood material shall be chipped directly into a container for off-site disposal (rather than piled on the ground). All other material shall be similarly hauled off-site. Invasive control treatments shall be conducted during years 1, 3, and 5 of the five-year restoration plan. This schedule is designed to provide effective control, while reducing costs relative to annual treatment; however, annual treatment can be implemented as resources allow. Follow-up treatments following year 5 will be necessary to prevent re-establishment of invasive plans, and should similarly be conducted as resources allow; however, treatments following the initial five-year period are not a requirement of the restoration plan.

Planting Plan: A planting plan shall be developed based on the conditions at the time and availability of native plants. Suitable species include, but are not limited to, coast live oak, ponderosa pine, silverleaf Manzanita, buck brush (Ceanothus cuneatus var. cuneatus), mock heather (Ericameria ericoides), sticky monkey flower (Mimulus aurantiacus), and yarrow (Achillea millefolium). To avoid causing genetic erosion, the native Sandhills plants installed at the restoration area shall be from genetic material (seeds or cuttings) derived from the Whispering Pines Sandhills site or the adjacent Sandhills sites mapped in the Sandhills Conservation and Management Plan (McGraw 2004). Native shrubs and trees can be installed on 8 foot to 12 foot centers; perennial herbs, if used, could be planted at higher density. The plantings should complement the existing vegetation, the condition of which will also influence the total number of plants to be planted.

Annual reports: Annual reports of plan implementation will be provided to the County of Santa Cruz Planning Department by January 31 the year following treatment (i.e. years 2, 4, and 6). Each annual report shall include the following:

a. A description of the restoration treatments implemented during the year and to date;

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No impact

- b. An assessment of the site conditions including invasive plant and native plant cover effectiveness of the restoration to date; and
- c. Recommended changes to the treatments based on the adaptive management process.

With the implementation of the above mitigations and purchase of Conservation Bank credits for each square foot of disturbance, the potential to significantly impact the biotic resources as a result of the proposed land division has been mitigated to a less than significant level.

	incuit icvei.				
2.	Have a substantial adverse effect on any riparian habitat or sensitive natural community identified in local or regional plans, policies, regulations (e.g., wetland, native grassland, special forests, intertidal zone, etc.) or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?				
Disc	cussion:	• •			
pote resp	site contains Zayante Sandhills Habitat, a sential for incidental take of the endanger onse to Item D-1 above. Implementation of buld reduce impacts to a less than significant	red Mount H the mitigation	[ermon]	June beetle.	See the
<i>3.</i>	Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
Disc	cussion: There are no mapped or design	nated federal	ly protec	cted wetland	s on or
,	cent to the project site. Therefore, ementation.	no impacts	would	occur from	project
4	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
Disc	cussion: The proposed project does not i	involve any a	ctivities	that would i	nterfere

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No impact

with the movements or migrations of fish or wildlife, or impede use of a known wildlife nursery site.

5.	Conflict with any local policies or
	ordinances protecting biological resources
•	(such as the Sensitive Habitat Ordinance,
	Riparian and Wetland Protection
	Ordinance, and the Significant Tree
	Protection Ordinance)?

Discussion:

Zayante Sandhills Habitat

The project would not conflict with any local policies or ordinances. Although the Zayante Sandhills is a sensitive habitat, the project complies with the criteria for use of the Conservation Bank for mitigation (e.g. no more than 15,000 square feet of disturbance area and location within the IPHCP area).

Oak Woodland

The property supports several oak trees, including three 28" diameter at breast height (D.B.H.) oaks located towards the front of the property, an 18" D.B.H. twin oak, and a 32" D.B.H. twin oak. Oak trees are protected by the County's sensitive habitat ordinance and also by the State of California's Oak Woodland Conservation Act of 2001 when 10% of the canopy is oak trees. No trees are proposed for removal as a part of the project, therefore the following mitigations focus on the retention and protection of the existing trees.

Mitigation Measures

- BIO-6: Prior to construction, the property owner shall submit an arborist report with tree protection recommendations. Those recommendations shall be shown on the project plans. The same arborist shall also provide a plan review letter evaluating whether or not the recommendations are properly reflected on the project plans. Prior to ground disturbance, the recommended tree protection measures shall be installed.
- BIO-7: As a part of the Declaration of Biotic Restriction, the oak trees will be identified as being protected in perpetuity. Any tree removals necessary for safety reasons shall be removed as a part of a Significant Tree removal permit.

Impacts from project implementation would be less than significant with mitigation incorporated.

6.	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat		

Potentially Significant

Less than Significant with Mitigation

Less than Significant

Plage	20	Impact	Incorporated	Impact	No Impact
	conservation plan?				
IPH(Cussion: The proposed project would not concervation. The proposed project would not concervation. The proposed project would not conservation. The proposed local, regional, or state habitat conservations, no impact would occur.	on Plan)	for the Sand	hills habit	tat or any
7.	Produce nighttime lighting that would substantially illuminate wildlife habitats?		\boxtimes		
Disc	cussion:	٠.			
Zaya	nte Sandhills Habitat				
state adve mini	development area is within Sandhills Habitat protected Mount Herman June Beetle. The rsely affected by a new or additional source of mized. The following mitigation would redu ficant level:	Mount flight tha	Herman Jun t is not adeq	e Beetle uately de	could be flected or
<u>Mitig</u>	nation Measures				
desig	8: Permanent outdoor lighting shall be minimum or other means to minimize illumination of attract insects (e.g. yellow or sodium vapor bussary (e.g. security).	surround	ing areas. Li	ght source	es that do
	n implementation of mitigation measure Bio-ting from the project would be less than signifi		pact of any	nighttime	lighting
	CULTURAL RESOURCES Id the project:				
1.	Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5?				
resou Arch with resou	cussion: The existing structure(s) on the produce on any federal, state or local inventional ecological Records Search and Survey report Pacific Legacy, May 16, 2008 (Attachmenturces. As a result, no impacts to historical ementation.	tory. In prepared t 5), the	n addition, by Mathew re is no ev	according Armstroidence of	g to the ng, M.A. Shistoric
2.	Cause a substantial adverse change in the significance of an archaeological			\boxtimes	

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

	resource pur Section 1506	suant to CEQA Guidelines 4.5?			."	
by I evic Sant resp	Mathew Armstr lence of pre-hi a Cruz County onsible person	cording to the Archeological Recong, M.A. with Pacific Legacy storic cultural resources. How Code, if archeological resources shall immediately cease and otification procedures given in	r, May 16, 20 vever, pursuces are unco desist from	008 (Attach ant to Secti vered durir all further	ment 5), the on 16.40.0 ng construct site excava	nere is not 40 of the ction, the
Imp	acts are expect	ed to be less than significant.				
3.		uman remains, including d outside of formal				
Sect exca disc exca dete prep Dist	ion 16.40.040 vation, or oth overed, the restration and no rmines that the pared and representation shall	pacts are expected to be less of the Santa Cruz County Coer ground disturbance associated ponsible persons shall immediately the sheriff-coroner and the remains are not of recent desentatives of the local Native not resume until the significant propriate mitigations to preserve	de, if at any ted with the ately cease the Planni origin, a ful California Ir	time during time during the desist for the design dian group the archeological design for the de	ng site pre human ren from all fur or. If the ical report shall be co logical res	paration nains are rther site coroner shall be ontacted source is
4.		directly destroy a unique al resource or site or unique ure?				\boxtimes
		unique paleontological resourd nity of the proposed project. N	-			e known
	GEOLOGY AN	ID SOILS				
1.	substantial ad	le or structures to potential dverse effects, including the njury, or death involving:				
	A. Rupture	of a known earthquake fault,			\square	

Hochler Minor Land Division

as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a

Application Number: 141228

2310330033303376	l Study,	nvironmental Quality Act (CEQA) (Environmental Checklist	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
		known fault? Refer to Division of Mines and Geology Special Publication 42.				
	B.	Strong seismic ground shaking?			\boxtimes	
	C.	Seismic-related ground failure, including liquefaction?			\boxtimes	
	D.	Landslides?				

Discussion (A through D): The project site is located outside of the limits of the State Alquist-Priolo Special Studies Zone (County of Santa Cruz GIS Mapping, California Division of Mines and Geology, 2001). However, the project site is located seven miles southwest of the San Andreas fault zone, and approximately six miles northeast of the Zayante-Vergeles fault zone. While the San Andreas fault is larger and considered more active, each fault is capable of generating moderate to severe ground shaking from a major earthquake. Consequently, large earthquakes can be expected in the future. The October 17, 1989 Loma Prieta earthquake (magnitude 7.1) was the second largest earthquake in central California history.

All of Santa Cruz County is subject to some hazard from earthquakes. However, the project site is not located within or adjacent to a county or state mapped fault zone. A geotechnical investigation for the proposed project was performed by Adrian Garner of CMAG Engineering, Inc. (Attachment 6). The report concluded that, the soils that underlie the site are very loose and moderately compressible silty sands and poorly graded sands with silt in varied in color, moisture content, and density. To minimize the potential for differential settlement, the consulting geotechnical engineer recommends overexcavation and recompaction of the surface layer. While the near-surface soils exhibit high erosion potential, the project conditions of approval require all future construction to adhere to industry best management practices for erosion control during construction.

The geotechnical report did not identify landslides, lateral spreading, or liquefaction as areas of concern based on silty sand and sandy soils found on the site. Additionally, groundwater was not encountered during the field exploration and the topography is relatively flat. The geotechnical report did not identify fault zones, fault traces, or landslides on or around the subject parcel. The report provides recommendations for grading and foundation design and the applicant would be required to submit an update to this report that reflects the requirements of the most current California Building Code, prior to any future building permit issuance. Final building foundations and grading plans must comply with the most

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

current California Building Code to resist seismic shaking and avoid structural collapse and shall be reviewed and approved by Environmental Planning staff prior to parcel map recordation.

The topography of the site is relatively flat. Surrounding land is also primarily flat; therefore the potential for significant impacts due to erosion on the site is low. Additionally landslides are not an area of concern for the proposed development.

Implementation of the additional conditions included in the review letter prepared by Environmental Planning staff (Attachment 7) will serve to further reduce the potential risk of seismic shaking.

000	John James J				
2.	Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?				
	cussion: The geotechnical report cited a tify a significant potential for damage caused				did not
3.	Develop land with a slope exceeding 30%?	<u>.</u>			\boxtimes
Disc	cussion : The subject parcel does not have s	lopes exceedi	ng 30%.		
4.	Result in substantial soil erosion or the loss of topsoil?				
projestance gradi (<i>Sect</i> sedir be pl	ect, however, this potential is minimal becaused, however, this potential is minimal becaused are a required condition or building permit, the project must be pr	cause of the raion of the properties have an applicable would a light from the properties of the mining and to mining the mining and the mining areas of the mining ar	relatively roject. Proproved Enspecify deposits for the control of	flat project ior to appro- cosion Contetailed eros or disturbed ce erosion.	site and oval of a crol Plan sion and l areas to
<i>5.</i>	Be located on expansive soil, as defined in Section 1802.3.2 of the California Building Code (2007), creating substantial risks to life or property?				
Disc	cussion: There is no indication that the de	velopment sit	e is subje	ct to substa	ntial risk

	nia Environmental Quality Act (CEQA) Study/Environmental Checklist 24	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact			
cause	d by expansive soils. Therefore, no impact is	anticipated	1 .					
	Have soils incapable of adequately supporting the use of septic tanks, leach fields, or alternative waste water disposal systems where sewers are not available for the disposal of waste water?							
Discussion : No septic systems are proposed. The project would connect to the Santa Cruz County Sanitation District, and the applicant would be required to pay standard sewer connection and service fees that fund sanitation improvements within the district as a Condition of Approval for the project.								
7.	Result in coastal cliff erosion?				\boxtimes			
	ussion: The proposed project is not located nerefore, would not contribute to coastal cliff		•					
	REENHOUSE GAS EMISSIONS d the project:							
(Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?							
Discussion: The proposed project, like all development, would be responsible for an incremental increase in green house gas emissions by usage of fossil fuels during the site grading and construction. Santa Cruz County has recently adopted a Climate Action Strategy (CAS) intended to establish specific emission reduction goals and necessary actions to reduce greenhouse gas levels to pre-1990 levels as required under AB 32 legislation. The strategy intends to reduce greenhouse gas emissions and energy consumption by implementing measures such as reducing vehicle miles traveled through the County and regional long range planning efforts and increasing energy efficiency in new and existing buildings and facilities. All project construction equipment would be required to comply with the Regional Air Quality Control Board emissions requirements for construction equipment. As a result, impacts associated with the temporary increase in green house gas emissions are expected to be less than significant.								
	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?							
Discu	Discussion: See the discussion under G-1 above. No significant impacts are anticipated.							

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 25	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact			
H. HAZARDS AND HAZARDOUS MATERIAL Would the project:	S						
 Create a significant hazard to the public or the environment as a result of the routine transport, use or disposal of hazardous materials? 							
Discussion : The proposed project would not create a significant hazard to the public or the environment. No routine transport or disposal of hazardous materials is proposed. However, during construction, fuel would be used at the project site. Best management practices would be used to ensure that no impacts would occur. Impacts are expected to be less than significant.							
 Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? 							
Discussion : Please see discussion under H-1 aboless than significant.	ove. Projec	t impacts w	ould be co	onsidered			
3. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?							
Discussion : No school is located within one-quarter mile of a school. Brooknoll Elementary is located approximately 1.8 miles to the south of the project site. Although fueling of equipment is likely to occur within the staging area, best management practices would be implemented. No impacts are anticipated.							
4. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?							
Discussion: The project site is not included on the June 4, 2015 list of hazardous sites in Santa Cruz County compiled pursuant to Government Code Section 65962.5. No impacts are anticipated from project implementation.							

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 26	Potentially Significan Impact		Less than Significant Impact	No Impact				
5. For a project located within an airport use plan or, where such a plan has n been adopted, within two miles of a pairport or public use airport, would the project result in a safety hazard for peresiding or working in the project area.	ot public e eople							
Discussion : The proposed project is not public use airport. No impact is anticipated		two miles of	a public a	airport or				
6. For a project within the vicinity of a prairstrip, would the project result in a shazard for people residing or working the project area?	afety 🗀							
Discussion : The proposed project is not impact is anticipated.	located in the	vicinity of a p	orivate airs	strip. No				
7. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuate plan?								
Discussion : The proposed project would not conflict with implementation of the County of Santa Cruz Local Hazard Mitigation Plan 2010-2015 (County of Santa Cruz, 2010). Therefore, no impacts to an adopted emergency response plan or evacuation Plan would occur from project implementation.								
8. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including whe wildlands are adjacent to urbanized a or where residences are intermixed wildlands?	reas							
Discussion : The proposed project is located in a moderate Fire Hazard Area. However, the project design incorporates all applicable fire safety code requirements and includes fire protection devices as required by the local fire agency. Impacts would be less than significant.								
I. HYDROLOGY, WATER SUPPLY, AN Would the project:	ID WATER QU	JALITY						
 Violate any water quality standards of waste discharge requirements? 			\boxtimes					
Discussion : The project would not discharge runoff either directly or indirectly into a public or private water supply. However, runoff from this project may contain small								

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

amounts of chemicals and other household contaminants. No commercial or industrial activities are proposed that would contribute contaminants. Potential siltation from the proposed project would be addressed through implementation of erosion control best management practices (BMPs). No water quality standards or waste discharge requirements would be violated. Impacts would be less than significant.

2.	Substantially deplete groundwater			\boxtimes	
	supplies or interfere substantially with	<u></u>		. E	
	groundwater recharge such that there				
	would be a net deficit in aquifer volume or			-	
	a lowering of the local groundwater table	•			
	level (e.g., the production rate of pre-	•			
	existing nearby wells would drop to a level	1			
	which would not support existing land				
	uses or planned uses for which permits				
3 T. J.	have been granted)?				

Discussion: The project would obtain water from San Lorenzo Valley Water District and would not rely on private well water. Although the project would incrementally increase water demand, San Lorenzo Water District has indicated that adequate supplies are available to serve the project (Attachment 8).

Although the proposed project would be located in a mapped groundwater recharge area, the proposal would be consistent with General Plan policies 5.8.2 (*Land Division and Density Requirements in Primary Groundwater Recharge Areas*) in that the project site is located within the urban services line; 5.8.3 (*Uses in Primary Groundwater Recharge Areas*), and 5.8.4 (*Drainage Design in Primary Groundwater Recharge Areas*). The project would also be consistent with Section 7.79.110 of the County Code (*New Development and Redevelopment*). The code states, "All responsible parties shall mitigate impacts due to development and implement Best Management Practices (BMPs) per the County Design Criteria adopted by the County of Santa Cruz and Chapters 16.20 and 16.22 SCCC to control the volume, runoff rate, and potential pollutant load of stormwater runoff from new development and redevelopment projects to minimize the generation, transport, and discharge of pollutants, prevent runoff in excess of predevelopment conditions, and maintain predevelopment groundwater recharge." No adverse impact would occur to groundwater recharge with project implementation.

3.	Substantially alter the existing drainage pattern of the site or area, including			\boxtimes
	through the alteration of the course of a			
	stream or river, in a manner which would		ř	
	result in substantial erosion or siltation on-		•	
	or off-site?		* *	•

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

Page 28	mpact	Incorporated	Impact	No impact
Discussion: The proposed project is not located alter the existing overall drainage pattern of the site Section staff and the City of Scotts Valley Departmapproved the proposed drainage plan. No impact w (Attachment 9).	. Department of Pul	nent of Pub olic Works	lic Works have revie	Drainage wed and
4. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding, onor off-site?				
Discussion : The proposed project is not located alter the existing overall drainage pattern of the site. Section staff and the City of Scotts Valley Department approved the proposed drainage plan (Attachment would be less than significant.	. Department of Pub	ent of Pub blic Works	lic Works have revie	Drainage wed and
5. Create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems, or provide substantial additional sources of polluted runoff?				
Discussion : Drainage Calculations prepared by R have been reviewed for potential drainage impacts a of Public Works (DPW) Drainage Section staff as we Valley, Joel Ricca of Bowman and Williams, Consult (Attachment 9). The calculations, which are bas development will be maximized on the lots, sh accommodated on site with small gravel beds to facilithe property would be controlled by first retain	and accept ell as the r ting Civil sed on a now that ilitate infil	ed by the Creviewer for Engineers a conservative the two-yltration.	County Depart he City and Land Some assumption of the country of t	of Scotts urveyors tion that can be rate from

right-of-way to the drainage facilities located in the Lockewood Lane right-of-way. Mr. Ricca has determined that existing storm water facilities are adequate to handle the increase in drainage associated with the project. Refer to response I-1 for discussion of urban contaminants and/or other polluting runoff. Impacts would be considered less than

Otherwise substantially degrade water

significant.

X

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

		ппрасс	incorporated	ипрась	No impact
	quality?				
	cussion: Please see discussion under I-1 abording the ficant with the implementation of BMPs.	ove. Impact	ts would be o	onsidered	less than
7.	Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				
Floo	cussion: According to the Federal Emergent d Insurance Rate Map, dated May 16, 2012, in a 100-year flood hazard area.		_	•	
8.	Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				
Floor 100-	eussion: According to the Federal Emergent Insurance Rate Map, dated May 16, 2012, year flood hazard area. Therefore, the properties. No impact would occur.	no portion	of the project	ct site lies	within a
9.	Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				\boxtimes
	to the failure of a levee or dam. No impact w			ling and w	ould not
10.	Inundation by seiche, tsunami, or mudflow?				
The This Howe for the Santa	first is a teletsunami or distant source tsunatype of tsunami is capable of causing signiever, this type of tsunami would usually allowed Pacific Ocean to warn threatened coastal Cruz 2010).	ami from e ficant dest ow time for l areas in t	lsewhere in ruction in Sa r the Tsunan time for evac	the Pacific anta Cruz ni Warnin cuation (C	c Ocean. County. g System county of
an ea	arthquake along one of the many earthqual quake could cause a local source tsunami from	ke faults in	the region.	. Even a r	noderate

A local source tsunami generated by an earthquake on any of the faults affecting Santa Cruz

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

County would arrive just minutes after the initial shock. The lack of warning time from such a nearby event would result in higher causalities than if it were a distant tsunami (County of Santa Cruz 2010).

The project site is located approximately 5.6 miles inland at, approximately 600 feet of elevation, a distance and elevation beyond the effects of a tsunami. In addition, no impact from a seiche or mudflow is anticipated. No impact would occur.

fro	m a seiche or mudflow is anticipated. No impa	ct would o	cur.		-
	LAND USE AND PLANNING buld the project:				
1.	Physically divide an established community?				
	scussion: The proposed project does not in ide an established community. No impact would		element th	at would p	hysically
2.	Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				
adc	scussion: The proposed project does not opted for the purpose of avoiding or mitigating icipated.		• •	•	-
3.	Conflict with any applicable habitat conservation plan or natural community conservation plan?				
	response to D-1, D-5, and D-7.	would be c	onsistent v	vith the IPF	ICP. See
	MINERAL RESOURCES uld the project:				
1.	Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				\boxtimes
					٠

Potentially Significant

Less than Significant with Mitigation

Less than Significant

FC 9	- 51	Impact	Incorporated	Impact	No impact
valu	cussion: The site does not contain any keet to the region and the residents of the state ect implementation.				
2.	Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				
min Use Thei local	cussion: The project site is zoned R-1- imum parcel size), which is not an Extractive Designation with a Quarry Designation Corefore, no potentially significant loss of average and the plan would control of the plan or other land use plan would control of the plan or other land use plan would control of the plan or other land use plan would control of the plan or other land use plan would control of the plan or other land use plan would control of the plan or other land use plan would control of the project site is zoned R-1-reading to the zoned R-1-rea	ve Use Zono Overlay (Q) ailability o ctraction) si	e (M-3) nor o (County of f a known n te delineated	does it ha Santa Cr nineral re l on a loc	ve a Land ruz 1994). esource of
	NOISE ald the project result in:				
1.	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
Disc	cussion:			•	
of 50 exce deve road parce	County policy, average hourly noise levels so Leq during the day and 45 Leq during the ed 65 db during the day or 60 db at night. Sloped with single-family dwellings and is way or stationary noise source; therefore, els would not have the potential to expose standards.	nighttime. The subject not located the propo	Impulsive no parcel is sur adjacent to sed creation	oise levels rounded l a heavily of two	s shall not by parcels y traveled additional
2.	Exposure of persons to or generation of excessive groundborne vibration or			\boxtimes	

Discussion: The use of construction equipment would potentially generate vibration in the project area. The two nearest residential properties are located at approximately about 20 feet to the northeast and the southwest of the project site on Lockewood Lane. Due to this distance, none of the area residences would experience significant groundborne vibration or groundborne noise levels during construction activities associated with the

groundborne noise levels?

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 32	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact	
proposed project. Therefore, Impacts would be considered less than significant					
3. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?					
Discussion : The proposed project would not result in a permanent increase in the ambient noise level. The main source of ambient noise in the project area is traffic noise along Lockewood Lane. However, no substantial increase in traffic trips is anticipated as a result of the proposed project. Impacts are expected to be less than significant.					
4. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?					
Discussion : See discussion under L-1 above. Noise generated during project construction would increase the ambient noise levels in adjacent areas. Construction would be temporary, however, and given the limited duration of this impact it is considered to be less than significant with the incorporation of mitigation measures.					
5. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?					
Discussion : The proposed project is not within two miles of a public airport. Therefore, the proposed project would not expose people residing or working in the project area. No impact is anticipated.					
6. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?					
Discussion : The proposed project is not within two miles of a private airstrip. Therefore, the proposed project would not expose people residing or working in the project area. No impact is anticipated.					

	ornia Environmental Quality Act (CEQA) I Study/Environmental Checklist 33	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
	POPULATION AND HOUSING uld the project:				
1.	Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
Discussion : The proposed project would not induce substantial population growth in an area because the project does not propose any physical or regulatory change that would remove a restriction to or encourage population growth in an area including, but limited to the following: new or extended infrastructure or public facilities; new commercial or industrial facilities; large-scale residential development; accelerated conversion of homes to commercial or multi-family use; or regulatory changes including General Plan amendments, specific plan amendments, zone reclassifications, sewer or water annexations; or LAFCO annexation actions. Development is based upon the General Plan and zoning designations for the parcel which is located within the urban services area. No impact would occur.					
2 .	Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				
Discussion : The proposed project would not displace any existing housing. One existing house would be demolished and, eventually, three houses would be built. No impact would occur.					
3.	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?				\boxtimes
Discussion : The proposed project would not displace a substantial number of people since the project is intended to create three additional residential parcels. No impact would occur.					
	PUBLIC SERVICES uld the project:				
1.	Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance				

California Environmental Quality Act (CEQA)		Less than Significant			
California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 34	Potentially Significant Impact	with Mitigation Incorporated	Less than Significant Impact	No Impact	
objectives for any of the public services:					
a. Fire protection?			\boxtimes		
b. Police protection?			\boxtimes		
c. Schools?			\boxtimes		
d. Parks?			\boxtimes		
e. Other public facilities; including the maintenance of roads?			\boxtimes		
Discussion (a through e): While the project represents an incremental contribution to the need for services, the increase would be minimal. Moreover, the project meets all of the standards and requirements identified by the local fire agency or California Department of Forestry, as applicable, and school, park, and transportation fees to be paid by the applicant would be used to offset the incremental increase in demand for school and recreational facilities and public roads. Impacts would be considered less than significant.					
O. RECREATION Would the project:					
1. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?		· · ·			
Discussion : The proposed project would not substantially increase the use of existing neighborhood and regional parks or other recreational facilities. Impacts would be considered less than significant.					
2. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?					
Discussion : The proposed project does not propose the expansion or construction of additional recreational facilities. No impact would occur.					

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 35	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact		
P. TRANSPORTATION/TRAFFIC Would the project:						
Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all						
modes of transportation including mass transit and non-motorized travel and relevant components of the circulation						
system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?						
Discussion: The project would create a small incremental increase in traffic on nearby roads and intersections. However, given the small number of new trips created by the project—three new trips per morning and afternoon peak, this increase would be less than significant. Further, the increase would not cause the Level of Service at any nearby intersection to drop below Level of Service D, consistent with General Plan Policy 3.12.1.						
2. Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?						
Discussion: In 2000, at the request of the Santa Cruz County Regional Transportation Commission (SCCRTC), the County of Santa Cruz and other local jurisdictions exercised the option to be exempt from preparation and implementation of a Congestion Management Plan (CMP) per Assembly Bill 2419. As a result, the County of Santa Cruz no longer has a Congestion Management Agency or CMP. The CMP statutes were initially established to create a tool for managing and reducing congestion; however, revisions to those statutes progressively eroded the effectiveness of the CMP. There is also duplication between the CMP and other transportation documents such as the Regional Transportation Plan (RTP) and the Regional Transportation Improvement Program (RTIP). In addition, the goals of the CMP may be carried out through the Regional Transportation Improvement Program and the Regional Transportation Plan. Any functions of the CMP which are useful, desirable						

and do not already exist in other documents may be incorporated into those documents.

The proposed project would not conflict with either the goals and/or policies of the RTP or with monitoring the delivery of state and federally-funded projects outlined in the RTIP.

No impact would occur.

California Environmental Quality Act Initial Study/Environmental Checklist Page 36		Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact	
3. Result in a change in ai including either an incre levels or a change in loc in substantial safety risk	ease in traffic cation that results					
Discussion : No change in Therefore, no impact is antici	-	vould result	from proje	ct implem	entation.	
4. Substantially increase hadesign feature (e.g., should be dangerous intersections uses (e.g., farm equipment)	arp curves or s) or incompatible				\boxtimes	
Discussion : The proposed construction of a new right-construction of a new right-construction would take access from Lane, a road within the City project implementation.	of-way to serve the join the new right-of	parcels in a f-way whicl	residential n is accesse	neighborh d from Lo	ood. The ckewood	
5. Result in inadequate en	nergency access?					
Discussion : The project's Valley Fire Protection Distric		en reviewed	d and appro	oved by th	ne Scotts	
6. Conflict with adopted po programs regarding pub or pedestrian facilities, of decrease the performant such facilities?	olic transit, bicycle, or otherwise					
Discussion : The project would include a 24-foot wide right-of-way which requires a Roadside / Roadway Exception. The County's Design Criteria's minimum urban local street requires a 40-foot wide right-of-way which includes area for parking, landscaping and a sidewalk. In this case, because the roadway serves just three-houses, the reduced right-of-way would be adequate to provide safe ingress and egress for vehicles and pedestrians. As noted above, the Scotts Valley Fire Protection District reviewed and approved the proposed design. In addition, the City of Scotts Valley Department of Public Works reviewed and accepted the proposed design. The project would not conflict with any adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities.						
Q. UTILITIES AND SERVICE Would the project:	E SYSTEMS					
Exceed wastewater trea requirements of the app						

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 37

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

Water Quality Control Board?
Discussion : The proposed project's wastewater flows would be treated by the City of Scotts Valley (Attachment 8). Therefore, the proposed project would not violate any wastewater treatment standards. No significant impacts would occur from project implementation.
2. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?
Discussion : The project would connect to an existing municipal water supply. San Lorenzo Water District has determined that adequate supplies are available to serve the project (Attachment 8). No impact would occur from project implementation.
Municipal sewer service is available to serve the project, as reflected in the attached letter from the City of Scotts Valley Public Works Department (Attachment 8). No impact would occur from project implementation.
3. Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?
Discussion : Drainage analysis of the project provided by Robert L. Dewitt, January 8, 2015 concluded that the existing storm water drainage facilities are adequate to serve the proejct. Department of Public Works Drainage staff and Joel Ricca of Bowman and Williams for the City of Scotts Valley have reviewed the drainage information and have determined that downstream storm facilities are adequate to handle the increase in drainage associated with the project (Attachment 9). Therefore, no additional drainage facilities would be required for the proposed project. No impacts are expected to occur from the proposed project.
4. Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?
Discussion : The San Lorenzo Valley Water District has indicated that adequate water supplies are available to serve the project and has issued a will-serve letter for the proposed project, subject to the payment of fees and charges in effect at the time of service (Attachment 8). The development would also be subject to the water conservation

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 38

existing commitments?

capacity to serve the project's projected demand in addition to the provider's Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

requirements. Therefore, existing water supplies would be sufficient to serve the proposed project, and no new entitlements or expanded entitlements would be required. Impacts would be less than significant.

5. Result in determination by the wastewater treatment provider which serves or may serve the project that it has adequate

Discussion: The City of Scotts Valley Department of Public Works has indicated that adequate capacity is available to serve the project and has issued a will-serve letter for the proposed project, subject to the payment of fees and charges in effect at the time of service (Attachment 8). Therefore, existing wastewater treatment capacity would be sufficient to serve the proposed project. Please see discussion under Q-2 above. No impact would occur from project implementation.

6. Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

Discussion: Due to the small incremental increase in solid waste generation by the proposed project during demolition, construction and operations, the impact would not be significant.

7. Comply with federal, state, and local statutes and regulations related to solid waste?

Discussion: The project would comply with all federal, state, and local statutes and regulations related to solid waste disposal. No impact would occur.

 \boxtimes

X

R. MANDATORY FINDINGS OF SIGNIFICANCE

1. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal community, reduce the number or restrict the range of a rare or

\boxtimes		

California Environmental Quality Act (CEQA) Initial Study/Environmental Checklist Page 39 Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No impact

endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Discussion: The potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory were considered in the response to each question in Section III (A through Q) of this Initial Study. Resources that have been evaluated as significant would be potentially impacted by the project, particularly protected species associated with Zayante Sandhills and oak woodland. However, mitigations have been included that reduces these effects to a level below significance. These mitigations include: the purchase of credits from the Zayante Sandhills Conservation Bank (Bank); a disturbance limitation of 15,000 square feet; the implementation of the Restoration Plan; monitoring during construction by a qualified monitor; the recordation of Declaration of Biotic Restriction; and a Development Envelope would be required to be reviewed and approved by Environmental Planning staff to ensure that the future construction will avoid tree removal and habitat impact. As a result of this evaluation, there is no substantial evidence that, after mitigation, significant effects associated with this project would result. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

2. Does the project have impacts that are individually limited, but cumulatively considerable? ("cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

\boxtimes	

Discussion: In addition to project specific impacts, this evaluation considered the projects potential for incremental effects that are cumulatively considerable. As a result of this evaluation, it has been determined that there is no substantial evidence that there are significant cumulative effects associated with this project. Mitigations have been included to insure that impacts to the Zayante Sandhills and oak woodland habitats will not be significant. Those mitigations include limiting the disturbance area to 15,000 square feet; the recordation of a Declaration of Biotic Restriction; and the establishment of a development envelope to avoid tree removals and habitat impacts. Together, mitigations Bio-1 through Bio-8 will insure that the impacts of the project will not be cumulatively considerable. Therefore, this project has been determined not to meet this Mandatory

Initie	fornia Environmental Quality Act (CEQA) al Study/Environmental Checklist e 40	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
Fine	ding of Significance.				
3.	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				

Discussion: In the evaluation of environmental impacts in this Initial Study, the potential for adverse direct or indirect impacts to human beings were considered in the response to specific questions in Section III. As a result of this evaluation, there were determined to be no potentially significant effects to human beings associated with this project. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

IV. REFERENCES USED IN THE COMPLETION OF THIS INITIAL STUDY

California Department of Conservation. 1980

Farmland Mapping and Monitoring Program Soil Candidate Listing for Prime Farmland and Farmland of Statewide Importance Santa Cruz County U.S. Department of Agriculture, Natural Resources Conservation Service, soil surveys for Santa Cruz County, California, August 1980.

County of Santa Cruz, 2013

County of Santa Cruz Climate Action Strategy. Approved by the Board of Supervisors on February 26, 2013.

County of Santa Cruz, 2010

County of Santa Cruz Local Hazard Mitigation Plan 2010-2015. Prepared by the County of Santa Cruz Office of Emergency Services.

County of Santa Cruz, 1994

1994 General Plan and Local Coastal Program for the County of Santa Cruz, California. Adopted by the Board of Supervisors on May 24, 1994, and certified by the California Coastal Commission on December 15, 1994.

MBUAPCD, 2008

Monterey Bay Unified Air Pollution Control District (MBUAPCD), CEQA Air Quality Guidelines. Prepared by the MBUAPCD, Adopted October 1995, Revised: February 1997, August 1998, December 1999, September 2000, September 2002, June 2004 and February 2008.

MBUAPCD, 2013a

Monterey Bay Unified Air Pollution Control District, NCCAB (NCCAB) Area Designations and Attainment Status – January 2013. Available online at

http://www.mbuapcd.org/mbuapcd/pdf/Planning/Attainment Status January 2013 2.pdf

MBUAPCD, 2013b

Triennial Plan Revision 2009-2011. Monterey Bay Air Pollution Control District. Adopted April 17, 2013.



This page intentially left blank.

Attachment 1

Mitigation Monitoring and Reporting Program



This page intentially left blank.



County of Santa Cruz

PLANNING DEPARTMENT
701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060
(831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123
KATHLEEN MOLLOY PREVISICH, PLANNING DIRECTOR

MITIGATION MONITORING AND REPORTING PROGRAM for the

Application No. 141228, June 22, 2015 Hochler Minor Land Division

Ne.	Environmental Imperot	Mitigation Measures	Responsibility for Compliance	Method of Compliance	Timing of Compliance
Biologic	Biological Resources				
BIO-1	Have a substantial adverse effect, either directly or through habitat modifications, on any	Prior to ground disturbance, the developer shall purchase credits from the Zayante Sandhills Conservation Bank for each square footage of disturbed area.	Applicant	Compliance monitored by the County Planning Department	To be implemented prior to construction.
BIO-2	species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game, or U.S. Fish and Wildlife Service?	On each new parcel of record, the property owner shall record a Declaration of Biotic Restriction acknowledging the sensitive habitat and restoration areas (template included as Attachment 3 of Initial Study). The development envelope shall also be memorialized in the Declaration. Additional mitigation measures are incorporated into the Declaration of Restriction, such as requirements for implementing the Restoration or Plan, restrictions against removal of native Sandhills plant species, the prohibition of ground disturbing activities outside of the development envelope, the requirement to construct a permanent split rail fence at the edge of the development envelope to demarcate the restoration area, and restrictions on the use of permanent outdoor lighting that may attract MHJB.	Applicant and County Planning Department	Compliance monitored by the County Planning Department	To be implemented during project design and construction.
B10-3		Prior to any ground disturbance, temporary fencing shall be placed at the edge of the development envelope and signage will be installed alerting workers to stay out of the restoration area and noticing that the area is a sensitive habitat.	Applicant	Compliance monitored by the County Planning Department	To be implemented during project construction.
B10-4		Prior to any ground disturbance, a pre-construction meeting shall be held. All workers at the site would participate in a tailgate session to learn about the endangered beetle, its habitat, protective measures, and procedures to follow if any individuals of the MHJB are actually observed at the project site during the conducted by a person knowledgably about the MHJB and its habitats, and approved by the U.S. Fish & Wildlife Service to monitor MHJB during construction. The approved monitor shall also act as a construction monitor during the erection of the temporary fencing, initial demolition, grading, and excavation activities. The approved monitor would also periodically visit the project site throughout the construction period to insure that no disturbance occurs to areas outside the development envelope. The monitor shall have the authority to immediately stop any activity that does not comply with the HCP, and to order any reasonable measures to avoid the MHJB.	Applicant	Compliance monitored by the County Planning Department	To be implemented during project construction.

Environmental Impact	Mitigation Measures	Responsibility for Compliance	Method of Compliance	Timing of Compliance
	The Restoration Plan by Jodi M. McGraw, PhD, dated December 24, 2014 (Attachment 4 of Initial Study) shall be implemented, including:	Applicant	Compliance monitored by the	To be implemented
	Biomass Removal: All invasive plant biomass, including trunks, branches, leaves fruits and cande chall be disposed of official at a group worth	·	County Planning	design,
	recycling facility or other suitable location. Wood material shall be chipped			monitoring.
	ground). All other material shall be similarly hauled off-site. Invasive control			
	. <u>S</u>			
	while reducing costs relative to annual treatment; however, annual treatment can be implemented as resources allow. Follow-up treatments.			
	following year 5 will be necessary to prevent re-establishment of invasive			
	Planting Plan: A planting plan shall be developed based on the conditions at			
· .	the time and availability of native plants. Suitable species include, but are			
	not limited to, coast live oak, ponderosa pine, silverleaf Manzanita, buck brush (Ceanothus cuneatus var. cuneatus) mock heather (Ericameria			
	ericoides), sticky monkey flower (Mimulus aurantiacus), and yarrow			
	plants installed at the restoration area shall be from genetic material (seeds			
	or cuttings) derived from the Whispering Pines Sandhills site or the adjacent Sandhills sites manned in the Sandhills Consequation and Management			
	Plan (McGraw 2004). Native shrubs and trees can be installed on 8 foot to			
	12 foot centers; perennial herbs, if used, could be planted at higher density.			
	which will also influence the total number of plants to be planted.			
	Annual reports. Annual reports of plan implementation will be provided to			
	the following: a. A description of the restoration treatments implemented during the year			
	and to date; h An assessment of the site conditions including invasive plant and native			
	plant cover effectiveness of the restoration to date, and			
	c. Recommended changes to the treatments based on the adaptive management process.			
Conflict with any local policies or ordinances	Prior to construction, the property owner shall submit an arborist report with tree protection recommendations. Those recommendations shall be shown the project of the pro	Applicant	Compliance monitored by the	To be implemented during project
resources (such as the Sensitive Habitat	of the project plans. The same arborist shall also provide a plan review letter evaluating whether or not the recommendations are properly reflected on the project plans. Prior to ground disturbance, the recommended tree		County Planning Department	design and prior to construction.
Ordinance, Riparian and	protection measures shall be installed.			

810-5

Ne.

B10-6

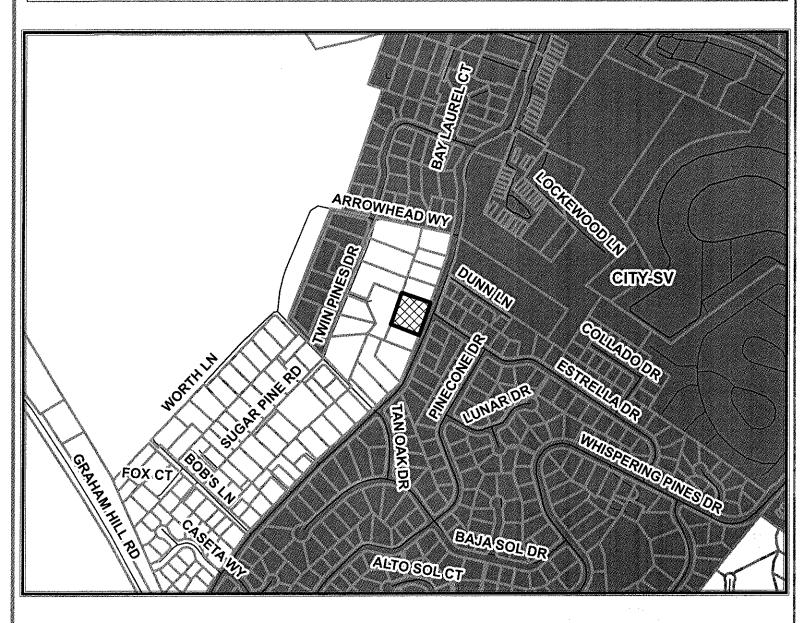
Nfo.	Environmental Impact	Mitigation Measures	Responsibility Method of for Compliance Compliance	Method of Compliance	Timing of Compliance
BIO-7	Wetland Protection Ordinance, and the Significant Tree Protection Ordinance)?	As a part of the Declaration of Biotic Restriction, the oak trees will be Applicant and identified as being protected in perpetuity. Any tree removals necessary for County Planning safety reasons shall be removed as a part of a Significant Tree removal Department permit.	Applicant and County Planning Department	Compliance monitored by the County Planning Department	To be implemented during project design and during construction.
	. The second sec	Impacts from project implementation would be less than significant with mitigation incorporated.			
8.0.8	Produce nighttime lighting that would substantially illuminate wildlife habitats?	### Produce nighting Permanent outdoor lighting shall be minimized and shall be shielded by Applicant that would substantially fixture design or other means to minimize illuminate wildlife Light sources that do not attract insects (e.g. yellow or sodium vapor bulbs) shall be used if outdoor lighting is necessary (e.g. security).	Applicant	Compliance monitored by the County Planning Department	To be implemented during project design, construction, and operations.

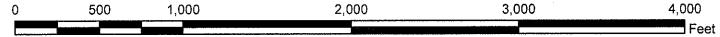


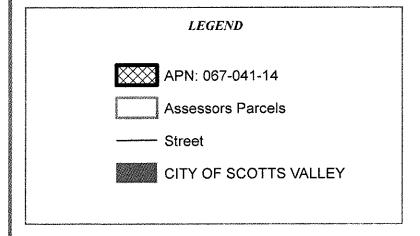
This page intentially left blank.



Location Map







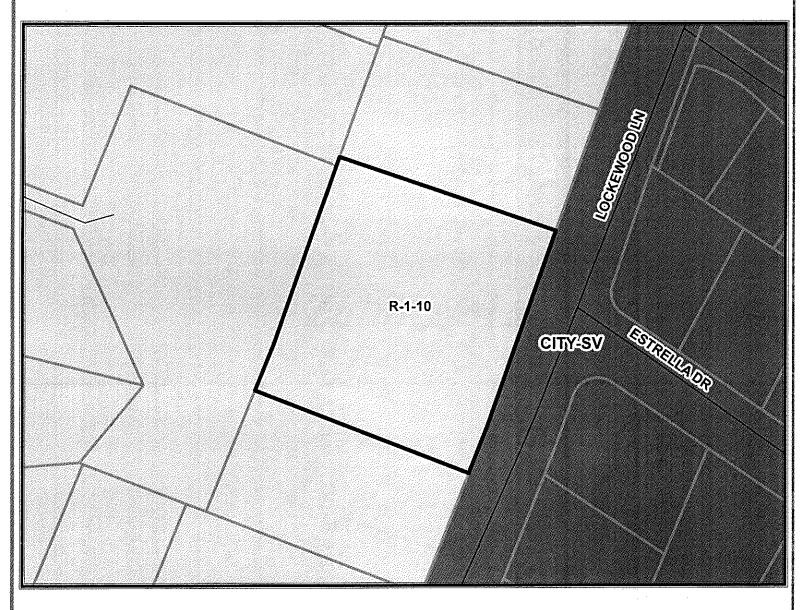


Map Created by County of Santa Cruz Planning Department November 2014

ATTACHMENT



Zoning Map



0 65 130 260 390 520 Feet

LEGEND

APN: 067-041-14

Assessors Parcels

Street

CITY OF SCOTTS VALLEY

RESIDENTIAL-SINGLE FAMILY



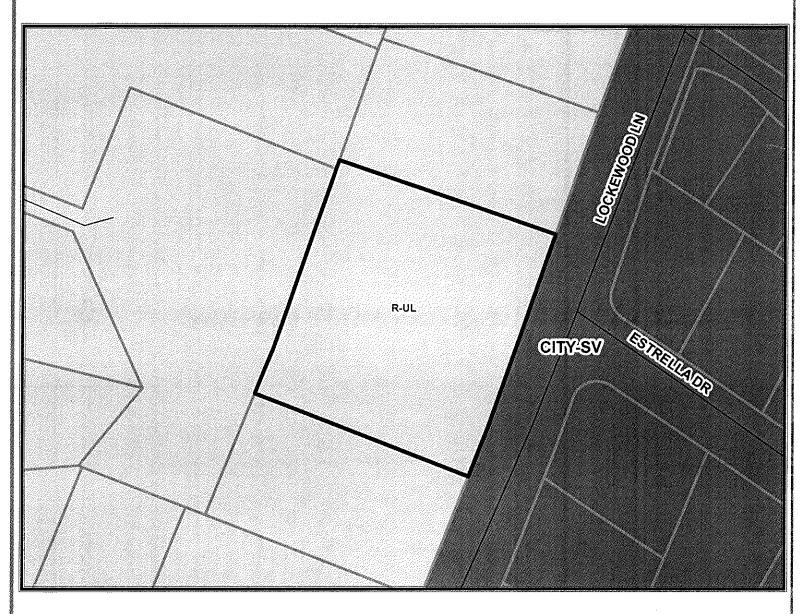
Map Created by County of Santa Cruz Planning Department November 2014

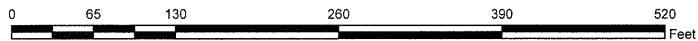
ATTACHMENT

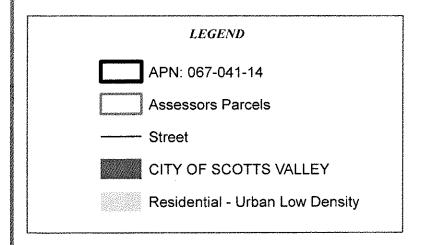
7



General Plan Designation Map



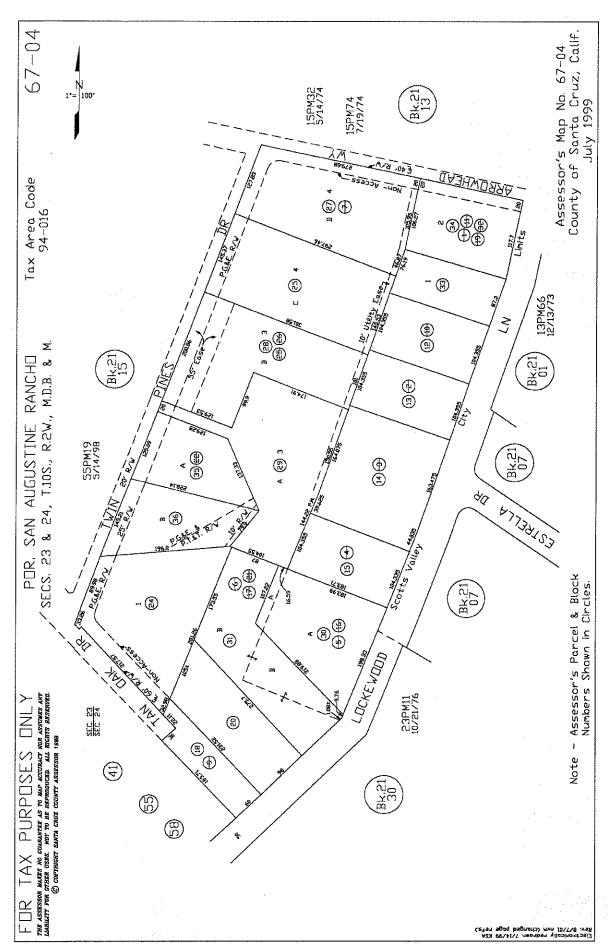


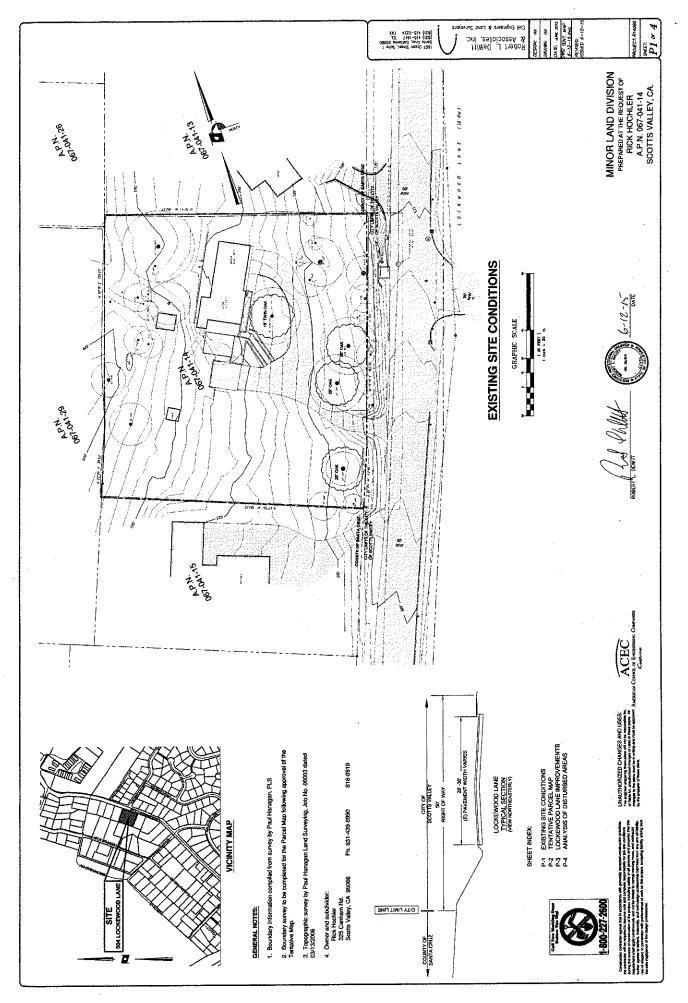


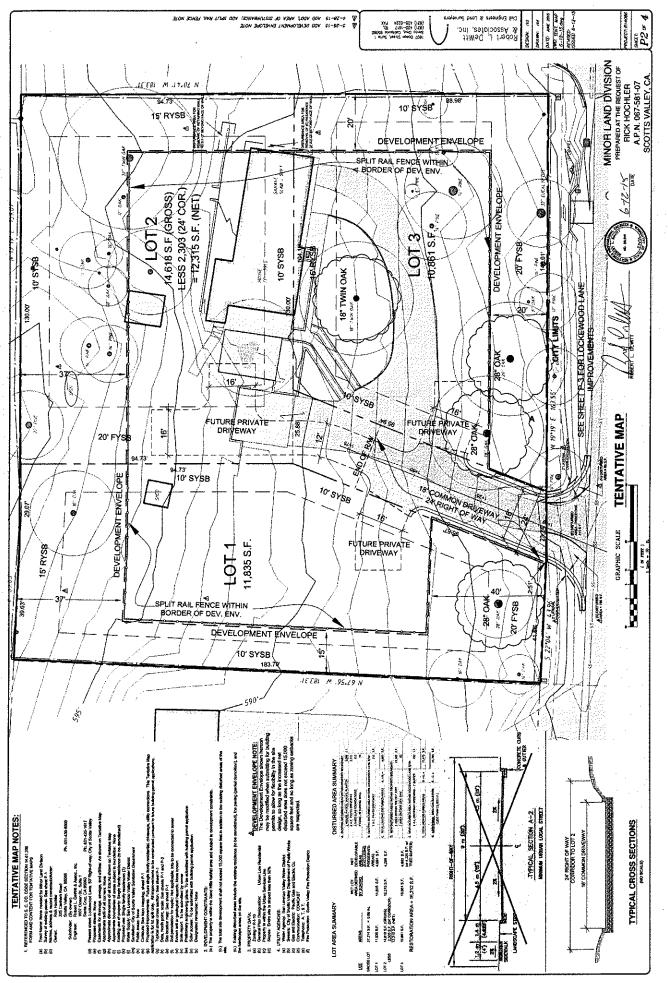


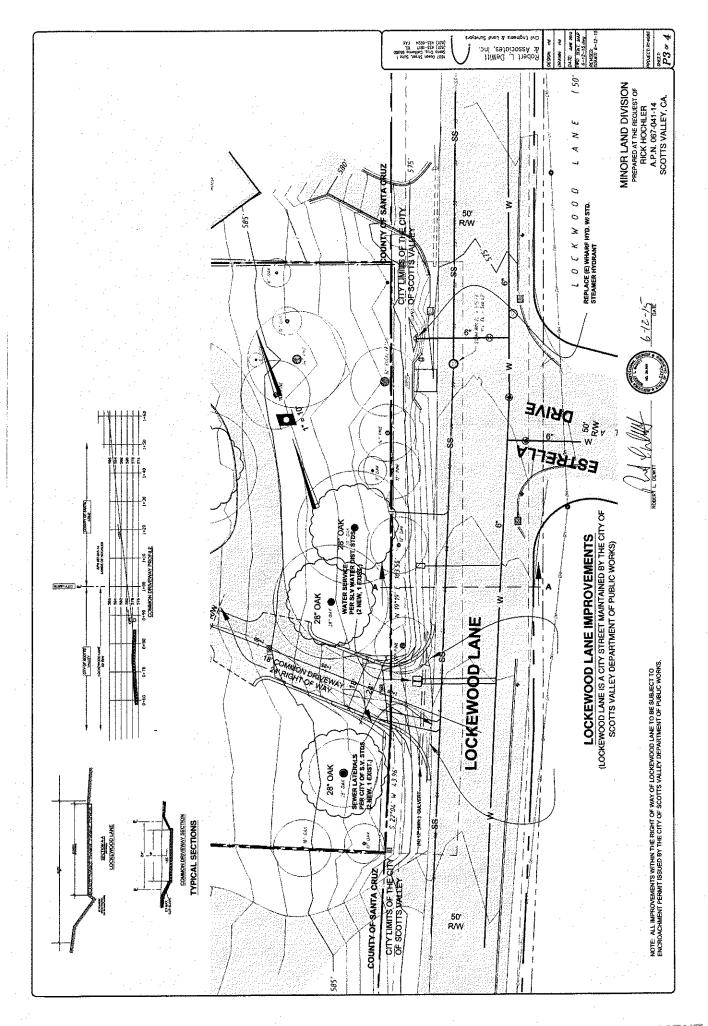
Map Created by County of Santa Cruz Planning Department November 2014

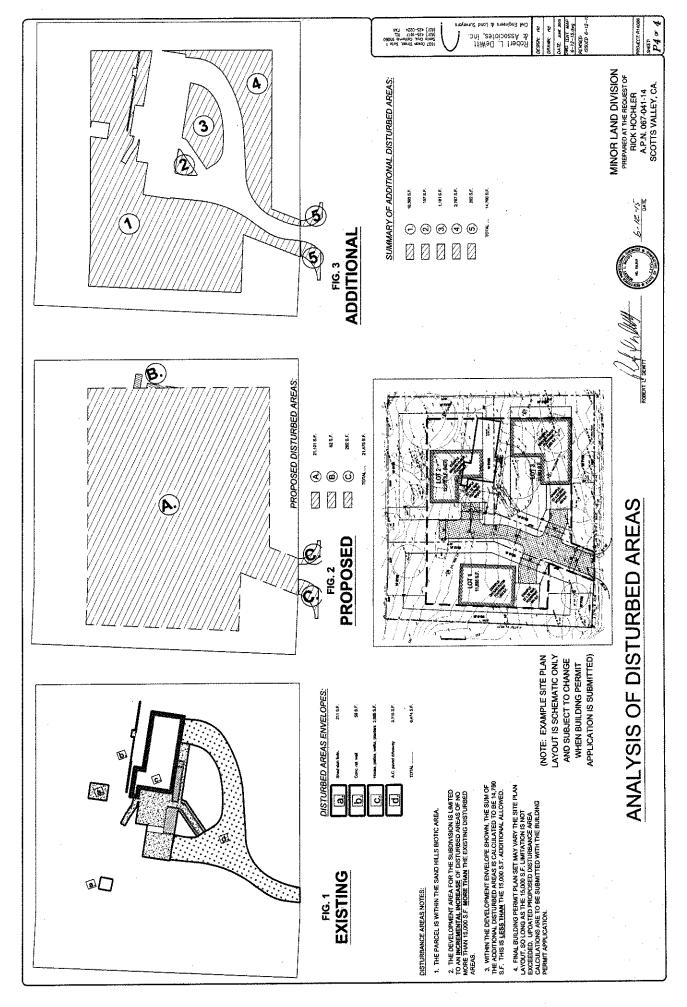
ATTACHMENT











RECORDED AT REQUEST OF: County of Santa Cruz	•	
WHEN RECORDED MAIL TO: Jessica Duktig		
Santa Cruz County Planning 701 Ocean St.		
Santa Cruz, CA 95060		•

(Space above this line for Recorder's use only)

DECLARATION OF RESTRICTION REGARDING SANDHILLS HABITAT

This declaration is made in the County of Santa Cruz, State of California	a, effective,
20 by	_owner(s) of real
property described in Exhibit "A" attached hereto and incorporated here	in by reference, also
known as Assessor's Parcel Number(s) 067-041-14 (hereinafter "subjections")	t property"), who
hereby declare(s) that all of the property described below shall be held,	transferred, sold, and
conveyed subject to the following restrictions and conditions, which are	for the purpose of
compliance with the County Code of the County of Santa Cruz, and whi	ch shall run with the
title to the property and be binding on all parties having any right, title or	interest in the property
or any part thereof, their heirs, assigns, and any other transferees and s	successors and shall
apply to each owner thereafter.	

RECITALS

WHEREAS, Declarants have proposed to divide the subject parcel into three new parcels and construct a new right-of-way (hereafter referred to as the "project") as described in Exhibit B attached hereto and incorporated herein by reference;

WHEREAS, the Sensitive Habitat Protection Ordinance of the County of Santa Cruz (Chapter 16.32 of the County Code, hereinafter "the Ordinance") requires that any development approved by the County of Santa Cruz (hereinafter the "County") shall mitigate significant environmental impacts;

WHEREAS, the County has found that the portion(s) of the subject property are sensitive habitat as defined in Chapter 16.32 of the County Code in that the project is located within the Sandhills and Oak Woodland;

WHEREAS, Grantors have made application for a permit to develop on project site (hereinafter "said permit"), and such development, if inappropriately sited, designed or utilized could have a significant adverse impact in the sensitive habitat described above;

WHEREAS, The County has found that to issue an approval or permit consistent with said Sensitive Habitat Protection Ordinance the County must be assured that the development will be sited, designed and utilized so as to not significantly adversely impact the sensitive habitat:

WHEREAS, the County has found that the restrictions enumerated hereinafter will confine the development to a limited area, prevent expansion of the development, and otherwise constrain the development, and will thus adequately mitigate the adverse impacts set forth above; and

WHEREAS, it is intended that the restrictions contained herein shall be and shall continue to be, to the end of the term of said restrictions, enforceable restrictions within the meaning of Article XIII, Section 8 of the California Constitution and that said revisions shall thereby qualify as an enforceable restriction under the provisions of the California revenue and Taxation Code Section 402.1.

RESTRICTIONS

NOW THEREFORE, in consideration of the mutual benefits and covenants hereby acknowledged by the parties and the substantial public benefits for the protection of the sensitive habitat, Declarant(s) hereby declare(s) that they are subject to the following restrictions and conditions.

- 1. <u>USE OF PARCEL</u>. Development as defined in Chapter 16.32 of the County Code (including, without limitation, removal of trees and other vegetation, grading, paving, installation of structures such as signs, buildings, or other structures of similar impact) shall be subject to the following restrictions:
 - Total site disturbance shall not exceed that area identified on Exhibit 'B' for which conservation credits shall be purchased prior to approval of the building permit(s).
 - b. Total cumulative site disturbance shall not exceed 15,000 square feet¹
 - c. Ground disturbing activities (e.g. vegetation clearing, grading, digging etc.) shall be minimized during the growing season of the Ben Lomond spineflower and adult flight period of the Mount Hermon June Beetle (May 15-Aug15).
 - d. Removal of native Sandhills plant species shall be minimized. Revegetation of disturbed areas shall be with native Sandhills plant species that are locally derived, if possible.
 - e. Landscaping shall exclude the use of turf grass, weed matting, aggregate and mulch.
 - f. During construction, night lighting shall be minimized during the flight season of the Mount Hermon June Beetle (May 15-Aug 15).
 - g. During construction, areas that have been recently disturbed by the development project shall be covered every evening (during May15-Aug15) with tarps, landscape fabric or other similar material.
 - h. Permanent outdoor lighting shall be minimized and shall be shielded by fixture design or other means to minimize illumination of surrounding areas. Light sources that do not attract insects (e.g. yellow or sodium vapor bulbs) shall be used if outdoor lighting is necessary (e.g. security or handicap access structures).
 - i. Oak trees shall be protected during construction consistent with the recommendations of a professional arborist or landscape architect.

¹ Parcels that are allowed less than 15,000 square feet of site disturbance are thus restricted because of a residential land division, which resulted in the 15,000 square feet being divided between the newly created lots.

Last updated 7/16/09

- j. Oak tree removal shall only be allowed if a tree is diseased, dead, or poses a safety hazard as documented by a professional arborist. Tree removal shall be done under a Significant Tree Removal Permit.
- 2. **TERM**. This Declaration of Restrictions shall be in effect for a period beginning on the effective date stated above and continuing for the life of the development approved by said approval and/or permit, and so long as any development rights whatsoever remain or are claimed under said approval and/or permit.
- 3. RECORDATION OF DOCUMENTS. This Declaration of Restrictions shall be duly recorded on the Office of the Recorder for the County of Santa Cruz. In the event that under the terms and conditions of this document, or any subsequent mutual written agreement, these restrictions are terminated with respect to all or any part of the subject property, the County shall, upon written request, execute and record with the Recorder of the County of Santa Cruz any documents necessary to evidence such termination.
 - 4. <u>SUCCESSORS IN INTEREST</u>. This declaration of Restrictions shall be appurtenant to the land described herein, for the term described herein, and all obligation hereby imposed shall be deemed to be covenants and restrictions running with the land, and shall bind any person having at any time any interest or estate in the subject property and as such shall be binding upon and inure to the benefit of all succors, transferees and assigns of the Declarants.
- 5. CONSTRUCTION OF VALIDITY/SEVERABILITY. If any provisions of these restrictions shall be held to be invalid, or for any reason become unenforceable no other provision shall be thereby affected or impaired, but rather shall be deemed severable.
- 6. **ENFORCEMENT OF DECLARATION**. Any conveyance, contract, or authorization (whether written or oral) by the Declarants or their successors on interest which would permit use of the subject property contrary to the term of this Declaration of Restrictions shall be deemed a breach of this Declaration. County or its successors may bring any action by administrative or judicial proceeding when County deems necessary of convenient to enforce this Declaration of Restrictions including, but not limited to, an action to enforce the Declaration. Grantors understand and agree that the enforcement proceedings provided in this paragraph are not exclusive and that County may pursue any appropriate legal and equitable remedies.

DECLARATION OF RESTRICTIONS

This Declaration shall run with the land and shall be binding upon the undersigned, any future owners, encumbrances, their successors, heirs or assignees. This document should be disclosed to the foregoing individuals. This Declaration may not be altered or removed from the records of the County Recorder without the prior consent of the Planning Director of the County of Santa Cruz.

	EOF, Declarants have executed this Declarat f, 20	ion of Rest	trictions on the
Dec	larant		
Dec	larant		·
		-	
	A notary public or other officer completing this certificate verifies only the identity of the individual who signed		
	the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.		
	ACKNOWLEDGEMENT OF GRANTOR(S)		
State of California Co	ounty of Santa Cruz		
person(s) whose nam that he/she/they exec	efore me,, Notary Pub , who proved to me on the basis of satisfane(s) is/are subscribed to the within instrument cuted the same in his/her/their authorized capa e(s) on the instrument the person(s), or the encuted the instrument.	t and ackn acity(ies), a	owledged to me and that by
	ALTY OF PERJURY under the laws of the S h is true and correct.	tate of Ca	lifornia that the
WITNESS my hand	d and official seal.		
	(Seal)		
Signature			

EXHIBIT "A"

All that real property situated in the County of	Santa Cruz, State of (California,
conveyed from	to	
by deed recorded on Document number	-	, Santa Cruz County.
Official Records on	Assessor's Parcel No	·

Exhibit "B"

Project includes

This form must be reviewed and approved by a County	Planning Department staff person after
notarization and prior to recordation.	

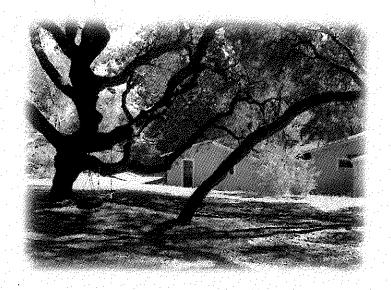
Dated:

COUNTY OF SANTA CRUZ

By: _____

<u>Planning Department Staff</u>

Restoration Plan for 504 Lockewood Lane, Santa Cruz County



Prepared by

Jodi M. McGraw, Ph.D.

Jodi McGraw Consulting

PO Box 221 • Freedom, CA 95019 • (831)-768-6988

jodi@jodimcgrawconsulting.com

www.jodimcgrawconsulting.com

Prepared for

Rick Hochler 325 Canham Road Scotts Valley, CA 95066

Submitted to

County of Santa Cruz Planning Department 701 Ocean Street Santa Cruz, CA 95060

December 24, 2014

504 Lockewood Lane Scotts Valley, CA

Restoration Plan

Contents

Contents	ii
1 Introduction	1
1.1 Background	1
1.2 Purpose	. 1
1.3 Plan Contents	1
2 Site Assessment	2
2.1 Location	2
2.2 Geology, Soil, and Topography	2
2.3 Existing Development	2
2.4 Vegetation and Native Plant Species	2
2.5 Exotic Plants	2
2.6 Special-Status Species	4
2.6.1 Rare and Endangered Plants	4
2.6.2 Rare Animals	5
3 Site Restoration	5
3.1 Opportunities and Challenges	5
3.2 Restoration Goal and Approach	5
3.3 Invasive Plant Control Treatments	6
3.4 Biomass Removal	6
3.5 Treatment Frequency	7
4 Monitoring and Adaptive Management	7
4.1 Monitoring	7
4.2 Adaptive Management	8
4.3 Reporting	8
5 Implementation	9
References	10

1 Introduction

1.1 Background

Rick Hochler is preparing to submit an application to the County of Santa Cruz to divide his 37,341-square-foot (0.86-acre) lot located at 504 Lockewood Lane (APN 067-041-14) into three new lots of 11,836 square feet (Lot 1), 14,618 square feet (Lot 2, including 24 foot-wide access corridor), and 10,861 square feet (Lot 3) (Figure 1). As requested by the County of Santa Cruz (County), Mr. Hochler has prepared a plan to restore a total of 15,881 square feet located outside of the proposed development envelope for the three lots, which is located in the center. The perimeter restoration area will be used to mitigate impacts resulting from development of the parcel on the Santa Cruz sandhills—sensitive habitat found only on Zayante soils in central Santa Cruz County, which supports rare and endangered species including the Mount Hermon Jun beetle (*Polyphylla barbata*). This on-site restoration will be conducted in addition to the future purchase of conservation credits at a Sandhills conservation bank to compensate for loss of habitat resulting from development of the parcels.

1.2 Purpose

This plan outlines the steps that will be taken to restore habitat within the 15.881-square-foot restoration area on site by controlling invasive plants, to promote establishment and growth of native plants that occur within the Sandhills habitat at the site, and improve habitat conditions for the Mount Hermon June beetle.

1.3 Plan Contents

It contains five main components:

- 1. Assessment of the site conditions, including the geology, soils, and species;
- 2. Restoration goal and approach, which identify the desired outcome of the restoration;
- 3. Restoration treatments that will be used to promote attainment of the goals;
- 4. **Monitoring and adaptive management** designed to evaluate status of the restoration and enhance success including through planting, as needed; and
- 5. Implementation, which identifies roles and the anticipated timing with respect to development.

2 Site Assessment

2.1 Location

The restoration site is located within current assessor's parcel 067-041-14, a 37,314-square-foot lot located at 504 Lockewood Lane, in Santa Cruz County just west of the town of Scotts Valley. Within the existing parcel, the restoration area is the 15,881-square-foot area that surrounds the cumulative development envelope located in each of the three lots in the center of the parcel (Figure 1). The development envelopes is where all construction, landscaping, and other improvements may occur. It will be separated from the restoration area by a visible boundary line, such as a low fence, designed to prevent future owners of the properties from conducting improvements in the area.

2.2 Geology, Soil, and Topography

As mapped by the Soil Conservation Service, the restoration area contains Zayante soils, a poorly developed, deep, coarse, sand soil derived from the weathering of uplifted marine sediments and sandstone of the Santa Margarita formation (USDA 1980). Soil within the site is a medium brown-grey sand soil characteristic of soil of the Zayante series that supports dense woody vegetation and thus has accumulated greater organic matter. Terrain within the parcel is gently sloping to the east-southeast (toward Lockewood Lane), perhaps as a result of prior grading to develop the Whispering Pines neighborhood in which it is located.

2.3 Existing Development

The property currently features a single-family residence, which is located in the central-northern portion of the parcel. It also features associated improvements including a carport, paved driveways, and two sheds. These existing developments will be demolished as part of development of single-family residences on each of the three new lots created on the parcel.

2.4 Vegetation and Native Plant Species

Native vegetation on the property has been cleared in association with its development in the 1950s, around when much of the new development in the neighborhood occurred. Historically the area supported ponderosa pine forest—a community found in more mesic (moister) conditions within the Sandhills, including on cooler slope aspects, in transitional soils, and/or later successional areas (i.e. areas that have not burned in numerous decades; McGraw 2004). Remnant native trees on the property include coast live oak (*Quercus agrifolia*) and ponderosa pine (*Pinus ponderosa*). Native plant species in occur at low relative abundance, perhaps as a result of recent mowing or other disturbance; they include California blackberry (*Rubus ursinus*), bracken fern (*Pteridium aquilinum* var. *pubescens*), and pink honeysuckle (*Lonicera hispidula*).

2.5 Exotic Plants

Perhaps as a result of prior clearing, the property supports a diverse assemblage of exotic plant species—species that do not naturally occur within California. Many of these species are highly competitive and alter the structure and species composition of the native plant community; such exotic species are considered to be invasive. The invasive species within the restoration area are: silver wattle

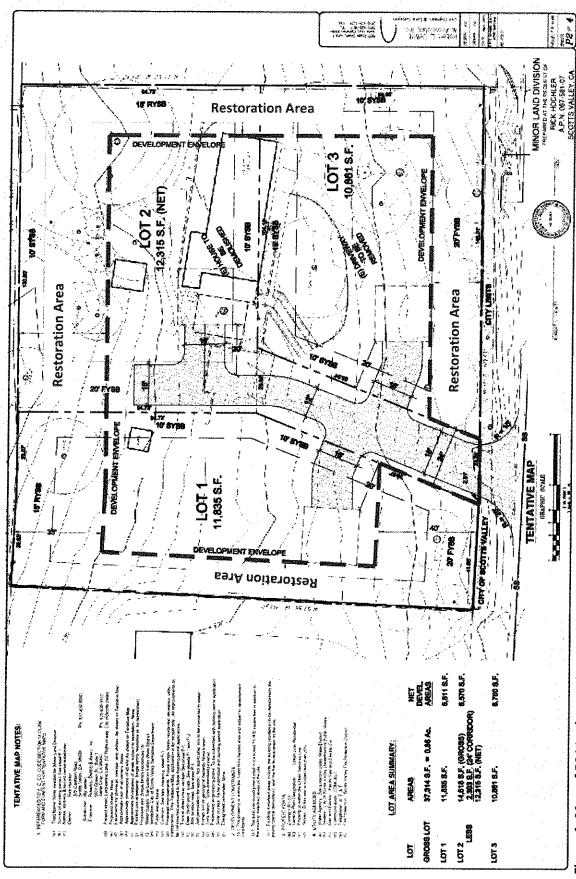


Figure 1: Map of 504 Lockewood Lane, showing Lots 1, 2, and 3 with respect to existing paved areas. The restoration area is the area within the existing parcel that is outside of the three lots (i.e. the perimeter of the parcel). Map prepared by Robert DeWitt.

(Acacia dealbata), blue gum (Eucalyptus globulus), French broom (Genista monspessulana), and periwinkle (Vinca major).

The restoration area also features dense exotic grasses and forbs, including rip-gut brome (Bromus diandrus), rattlesnake grass (Briza maxima), sheep sorrel (Rumex acetosella), rough cat's ears (Hypochaeris radicata), smooth cat's ears (H. glabra), woodland geranium (Geranium molle), and Bemuda buttercup (Oxalis pes-caprae) as well daffodil (Narcissus cf. pseudonarcissus).

2.6 **Special-Status Species**

Of the seven rare and endangered plants and animals known to occur within the Sandhills, only the Mount Hermon June beetle is likely to occur within the property (Table 1).

Table 1: Occurrence of special status species within the Sandhills within the restoration site		
Species	Status	Occurrence within the Site
Santa Cruz kangaroo rat (Dipodomys venustus venustus)	California Special Animal (DFW 2011)	Unlikely to be present; inhabits sand chaparral
Zayante band-winged grasshopper (Trimerotropis infantilis)	Federally Endangered	Unlikely to be present; inhabits open sand parkland.
Mount Hermon June beetle (<i>Polyphylla barbata</i>)	Federally Endangered	Likely present; inhabits various sandhills communities on Zayante soil.
Ben Lomond spineflower (Chorizanthe pungens var. hartwegiana)	Federally Endangered; Rare Plant Rank 1B.1 1B.1 ¹	Unlikely to be present; annual species not observed during site assessment and dense herbaceous vegetation creates unsuitable habitat.
Ben Lomond (Santa Cruz) wallflower (Erysimum teretifolium)	Federally Endangered; California Endangered; Rare Plant Rank 1B.1	Absent; perennial species not observed during site assessment and dense vegetation creates unsuitable habitat.
Ben Lomond buckwheat (Eriogonum nudum var. decurrens)	Rare Plant Rank 1B	Absent; perennial species not observed during site assessment and dense vegetation creates unsuitable habitat.
silverleaf manzanita (Arctostaphylos silvicola)	Rare Plant Rank 1B.2	Absent; conspicuous shrub not observed during site assessment.

¹ Rare Plant Rank: rare or endangered in CA and elsewhere (CNPS 2014)

2.6.1 Rare and Endangered Plants

The property is unlikely to support occurrences of the four plant species endemic to the Sandhills due to its land use history, which. The three perennial species, Ben Lomond buckwheat, Ben Lomond wallflower, and silverleaf manzanita, were not observed during site visits conducted in fall and winter of 2014 (J. McGraw, pers. Obs.). The annual Ben Lomond spineflower was similarly not observed, and is unlikely to occur on the site as a result of dense exotic herbaceous plant cover; however, it may occur at

low abundance and distribution. This species may also establish from a seed bank following disturbance (McGraw 2004a,b).

2.6.2 Rare Animals

The property is highly unlikely to support the Zayante band-winged grasshopper or the Santa Cruz kangaroo rat. These species occur in the Hanson Quarry conservation areas, less than 0.15 miles west-northwest of the property; however, neither inhabits the denser ponderosa pine forest habitat found in and around the parcel. Instead, Zayante band-winged grasshopper occurs in open sand parkland, and the Santa Cruz kangaroo rat occurs in sand chaparral. Moreover, both species are highly sensitive to habitat fragmentation, and are not typically observed in developed areas (McGraw 2004b, USFWS 2009, USFWS et al. 2011).

The property provides habitat suitable for the Mount Hermon June beetle, which inhabits a wide variety of vegetation occurring on sand or sandy loam soils in central Santa Cruz County; the largely fossorial species has been observed in residential developments (USFWS et al. 2011). Larvae feed on the roots of a variety of plant species, as well as mycorrhizae—the fungi associated with plant roots (Hill and O'Malley 2009). Adults emerge in the evenings between May and August to mate (McGraw 2004b).

3 Site Restoration

3.1 Opportunities and Challenges

The existing conditions within the restoration area present both opportunities and challenges to restoration (Table 2), which were factored into the restoration goals and approach (Section 3.2) and used to develop the plan treatments (Section 3.3).

3.2 Restoration Goal and Approach

The goals for restoration of the site are to: 1) reduce the abundance of invasive plants which compete with native Sandhills plants, and degrade habitat for the Mount Hermon June beetle, and 2) achieve at least 40% absolute cover of native plants within each restoration area on each parcel. This target cover, which includes canopy cover from native trees, is similar to that within intact sandhills habitat (i.e. sand parkland) which supports the Mount Hermon June beetle as well as other rare and unique sandhills species.

The restoration goal will be achieved through two main approaches:

- 1. Control invasive plant species: Reducing the abundance and competitive effects of invasive plants, which will promote establishment and growth of native Sandhills plants. Invasive vines, shrubs, and trees will be targeted for control, as when compared with herbaceous invasive plants, these target plants cause greater alterations to native community structure and species composition; they are also more susceptible to control treatments. Control of herbaceous exotic plants will promote restoration of the site, and is recommended as resources allow; however, it is not required.
- 2. Active Planting of Native Sandhills Plants: Control of invasive vines, shrubs, and trees, along with cessation of mowing, weed whipping, or other disturbance, is anticipated to allow

Table 2: Opportunities and Challenges to Restoration of the Site

Opportunities

Challenges

- The property features populations of native trees and herbs which can naturally recolonize areas currently occupied by invasive plants.
- Many native Sandhills plants establish following disturbances, such as fire; invasive plant removal treatments may simulate the beneficial effects of disturbances (e.g. create open soil and canopy conditions) and promote their establishment.
- Relatively dense native tree cover within the site can deter establishment of invasive plants that require more light.

- Several of the invasive plants including silver wattle and French broom feature long-lived seed banks dormant seed within the soil from which plants reestablish following control treatment.
- Many invasive plants are also adapted to disturbance; control treatments may promote their establishment.
- Silver wattle and periwinkle can regenerate vegetatively from root sprouts, rhizomes, or other tissue left in the soil following initial treatment.
- Silver wattle occurs on the surrounding properties and may re-establish from seed following clearing.
- The relatively well-developed soil within the site can promote growth of non-Sandhills plant species that might be limited in Sandhills sites that lack high concentrations of organic matter and nutrients.

establishment of at least 40% cover of native plants. If this target is not achieved by year 3 of the restoration, then active planting of native Sandhills plants will be used to achieve the success criterion (Section 4.2). Property owners who seek to initiate native sandhills plantings prior to year 3 can do so following the planting guidelines outlined in Section 4.2.

3.3 Invasive Plant Control Treatments

Table 3 lists the proposed treatment targets and control methods for the various guilds of invasive plants within the site. The targets indicate the desired conditions immediately following treatment. Control methods identify the recommended techniques to be applied to achieve the targets.

As noted above, targets are provided for invasive vines, shrubs, and trees only. Control of exotic grasses and forbs will promote restoration of the site and is, therefore, recommended; however, only treatment of invasive vines, shrubs, and trees is required to implement this plan.

3.4 Biomass Removal

All invasive plant biomass, including trunks, branches, leaves, fruits, and seeds, should be disposed of offsite at a green waste recycling facility or other suitable location. If left on site, this material would impede restoration by:

- promote re-establishment of invasive plants;
- deter native plant re-establishment, which is limited by litter on the soil surface; and

Exotic Species or Guilds	Treatment Targets ¹	Control Method(s)			
Vines such as periwinkle	Remove all established individuals	Cut vines to approximately 1 foot lengths, and spray herbicide onto the cut stems			
Shrubs such as French broom	Remove all established individuals	Shrubs ≥6' in height: Cut and immediately treat cambium with herbicide. Shrubs <6' in height: Pull by hand or with the aid of a weed wrench.			
Trees such as silver wattle and blue gum	Remove all established individuals	Adults: Cut and immediately treat cambium with herbicide. Seedlings or Root Sprouts: Hand pull or, if dense, treat with foliar herbicide.			
Exotic grasses and forbs (e.g. rip-gut brome, rattlesnake grass, sheep sorrel, and rough cat's ears)	None ¹	Weed whack dense infestations mid-winter and again in early spring, prior to seed production, taking care not to impact native plants.			

¹ Control of herbaceous plants can promote restoration; however, it is not required as part of this plan.

 impede burrowing and emergence of the fossorial Mount Hermon June beetle (McGraw 2004a,b).

Woody material should be chipped directly into a container for off-site disposal (rather than piled on the ground). All other material should be similarly hauled off-site.

3.5 Treatment Frequency

Invasive plant control treatments should be conduct during years 1, 3, and 5 of this five-year restoration plan. This schedule is designed to provide effective control, while reducing costs relative to annual treatment; however, annual treatment can be implemented as resources allow. Follow-up treatments following year 5 will be necessary to prevent re-establishment of invasive plants, and should similarly be conducted as resources allow; however, treatments following the initial five-year period are not a requirement of this plan.

4 Monitoring and Adaptive Management

4.1 Monitoring

Qualitative assessments of the restoration site will be conducted following implementation of the treatments in years 1, 3, and 5. The purpose of the visual assessment will be to examine the distribution, abundance, and condition of exotic plant species, particularly the invasive species targeted for removal (Table 3), and assess the status of native plant establishment and growth and progress toward achieving

the success criterion of 40% absolute cover. Results of the monitoring will be used to inform adaptive management.

4.2 Adaptive Management

This restoration plan will be implemented as part of an adaptive management process, in which management is adjusted, as needed, based on treatment effectiveness and changed conditions, in order to attain the plan goal. The elements of this restoration plan were developed based on the initial site conditions and known aspects of the ecology of the system and species. During the course of plan implementation, it may be necessary to make adjustments to various components of the plan to meet the plan's goal.

The restoration treatments (Table 3) can be adjusted to address changes in circumstances, including reestablishment of target species, and the invasion of new species. Also, If, by year 3, native perennial plants including herbs, shrub, and trees, do not constitute at least 25% of the absolute cover within the restoration areas within each lot, then active revegetation will be used to increase the cover of native plants and ensure that the 40% cover desired is achieved by year 5.

A planting plan will be developed based on the conditions at the time and availability of native plants. Suitable species include but are by no means limited to the following: coast live oak, ponderosa pine, silverleaf manzanita, buck brush (*Ceanothus cuneatus* var. *cuneatus*), mock heather (*Ericameria ericoides*), and sticky monkeyflower (*Mimulus aurantiacus*), and yarrow (*Achillea millefolium*). Other native plants adapted to the site's unique microhabitat conditions (Section 2.2) could also be used.

To avoid causing genetic erosion, the native sandhills plants installed to the restoration area should be from genetic material (seeds or cuttings) derived from the Whispering Pines Sandhills site or the adjacent sandhills sites mapped in the Sandhills Conservation and Management Plan (McGraw 2004b).

Native shrubs and trees can be installed on 8 foot to 12 foot centers; perennial herbs, if used, could be planted at higher density. The plantings should complement the existing vegetation, the condition of which will also influence the total number of plants to be planted.

4.3 Reporting

Annual reports of plan implementation will be provided to the County of Santa Cruz Planning Department by January 31 the year following treatment (i.e. years 2, 4, and 6). Each annual report will include the following:

- 1. A description of the restoration treatments implemented during the year and to date;
- 2. An assessment of the site conditions including invasive plant and native plant cover and effectiveness of the restoration to date; and
- 3. Recommended changes to the treatments based on the adaptive management process.

5 Implementation

The owners of three new lots will be responsible for implementing the restoration plan by implementing the treatments outlined above on their respective restoration areas located on the perimeters of their lots. This requirement will be recorded on the deeds of the two newly created parcels. The restoration work must be initiated by the time work begins to develop each parcel; it can be initiated prior to development if the landowner chooses. Restoration work can also be coordinated among parcels, at the discretion of the landowner(s); while this will increase cost-effectiveness, it is not a requirement.

Landowners should contract with qualified personnel with experience in the ecology and management of Sandhills habitat in order to implement the plan. Such experts have experience implementing the restoration treatments within sensitive habitat, where steps must be taken to prevent inadvertent negative impacts due to the treatments. Notably, soil disturbance caused by work to pull invasive plants or plant native species can cause impacts to fossorial larva of the Mount Hermon June beetle, which can be salvaged and relocated by trained, permitted biologists. Sandhills biologists can also conduct monitoring and assist with reporting.

References

- California Native Plant Society (CNPS). 2014. California rare plant inventory. Available on-line at: http://www.rareplants.cnps.org/.
- Department of Fish and Wildlife (DFW). 2011. California Special Animals List. Available at http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/spanimals.pdf. January 2011.
- Hill, K. and R. O'Malley. 2010. A picky palate? The host plant selection of an endangered June beetle. Journal of Insect Conservation 14:277-287.
- Hochler, R. 2014. Conversations with Rick Hochler regarding prior landowner survey for the Mount Hermon June beetle on his property at 701 Sugar Pine Road, Scotts Valley CA. July 1, 2014.
- McGraw, J. M. 2004a. Interactive effects between disturbance and exotic species on the structure and dynamics of an endemic sandhills plant community. Doctoral Dissertation in the Department of Integrative Biology, University of California at Berkeley. 309 pages.
- McGraw, J. M. 2004b. Sandhills conservation and management plan: a strategy for preserving native biodiversity in the Santa Cruz Sandhills. Report submitted to the Land Trust of Santa Cruz County, Santa Cruz, CA.
- McGraw, J. M. 2004b. Sandhills conservation and management plan: a strategy for preserving native biodiversity in the Santa Cruz Sandhills. Report submitted to the Land Trust of Santa Cruz County, Santa Cruz, CA.
- U.S. Department of Agriculture. 1980. Soil Survey of Santa Cruz County. Soil Conservation Service, United States Department of Agriculture and University of California.
- U.S. Fish and Wildlife Service. 2009. Zayante band-winged grasshopper and Mount Hermon June beetle five year review. US Fish and Wildlife Service. August 2009.
- U.S. Fish and Wildlife Service, County of Santa Cruz, and City of Scotts Valley. 2011. Interim Programmatic Habitat Conservation Plan for the Mount Hermon June Beetle and Ben Lomond Spineflower, January 2011, 96 pages.

10

COUNTY OF SANTA CRUZ

Planning Department

MEMORANDUM

Date: June 8, 2015

To: Annette Olson

From: Jessica Duktig

Re: Archaeological Records Search

The archaeological records search prepared by Pacific Legacy Inc. dated May 16, 2008 was completed for two properties 701 Sugar Pine and 504 Lockewood Lane in Scotts Valley. The report review was completed under application 131271, which also covers the parcel under application 141228.

Phone: 831.423.0588 Fax: 831.423.0587 www.pacificlegacy.com

May 16, 2008

Dr. Richard Arnold Entomological Consulting Services, Ltd. 104 Mountain View Court Pleasant Hill, CA 94523-2188

RE: Results of Archaeological Records Search and Survey at 701 Sugar Pine Drive and 504 Lockewood Lane, Scotts Valley, Santa Cruz County, California

Dear Dr. Arnold:

This letter documents the results of a records search and archaeological survey for proposed development within the property boundary of above referenced address. The purpose of the study was to determine whether any significant archaeological or historical resources are present within the project area and subject to adverse impacts by construction activities. Results of the records search indicate that there are no cultural resources previously recorded within the project area, and no cultural resources are listed in the National Register of Historic Places, California Points of Historical Interest, or the California State Historic Landmarks. A thorough archaeological reconnaissance of the ground surface conducted April 30, 2008 yielded negative results for cultural resources. The project, as proposed, appears not to have potential significant adverse impacts on any cultural resources.

PROJECT DESCRIPTION

The project at the above-referenced address is part of a larger project involving the following activities in Scotts Valley:

- The demolition of an existing residence and construction of six new residences and a new street at 495 Lockewood Lane.
- The division of one lot into three lots, and the relocation of an existing residence onto one of these three lots at 587 Twin Pine Drive
- The construction of four new residences at the terminus of Collado Drive.
- The demolition of an existing residence at 504 Lockewood Lane, and the construction of three new residences at 504 Lockewood Lane and three new residences at 701 Sugar Pine
- The construction of 495 ft. of new living space to an existing residence at 224 Hidden Glen Drive.

PROJECT LOCATION

The project is located in the Felton 7.5' USGS quadrangle sheet, in Township 10 South, Range 2 West, Unsectioned, San Agustin Land Grant, Santa Cruz County, at UTM Zones 10S 585557 mE/4100068 mN, 585297 mE/4099803 mN, (See Figure 1).

Phone: 831.423.0588 Fax: 831.423.0587 www.pacificlegacy.com

Dr. Richard Arnold Entomological Consulting Services, Ltd. Page 2

CULTURAL SETTING

Native American Cultures

Archaeological evidence indicates Native Americans have lived in the Santa Cruz area for nearly 10,000 years (Jones 1991; Moratto 1984). The local environment afforded an abundance of

resources for food, ornamentation, tools and economic exchange. Native cultures subsisted on seasonal gathering of resources such as acorn, grass seeds, kelp, and shellfish; hunting of terrestrial and marine mammals (deer, elk, rabbit, bear, seal, and sea lion); and fishing in freshwater streams and inshore marine habitats. Archaeological evidence indicates that trade and exchange took place with native groups as distant as the east side of the Sierra Nevada.

Native Americans living in the San Francisco and Monterey Bay areas were referred to by Spanish explorers of the 18th century as "Costaño" or "coast people." Costaño groups were recognized as speaking seven closely related languages (Shipley 1978). This linguistic group is now often referred to as Ohlone. The 18th century Ohlone community located in the vicinity of Mission Santa Cruz is believed to have been called Uypi, as recorded in mission records (King 1994; Milliken 1994). Establishment of Mission Santa Cruz and the introduction of European diseases by settlers for which the Ohlone had little natural resistance resulted in a rapid and dramatic decline in their population. Subsequent persecution and suppression of Ohlone cultural expressions by Spanish, Mexican and American ruling governments contributed to the decline of traditional Ohlore culture. Today, Ohlone descendants are celebrating a revival of their native culture and a growing appreciation of their place in the multicultural environment of California.

Historic Era

Father Junipero Serra and Captain Gaspar de Portola began the land-based exploration and settlement of Alta California in 1769. Mission Santa Cruz was founded in 1791, and was the first permanent European settlement in the Santa Cruz area (Clark 1986; Hoover et al. 1990). Shortly afterward, Diego de Borcia, the Governor of Alta California, selected the Santa Cruz area as the best location to fortify Alta California against the colonial interests of Russia, France, and Great Britain and established Pueblo de Branciforte in 1797 on a bluff across the San Lorenzo Rver from the mission. After mission secularization (1833-1834), the site of Mission Santa Cruz (actually the mission's second location, built in 1794) became Holy Cross Church.

Santa Cruz County, established in 1850 (first called Branciforte County), was named after the mission and was one of California's original 27 counties. By this time, the Gold Rush had caused a huge influx of settlers to California. Santa Cruz County grew and enjoyed a prosperous economy based on logging, lime processing, agriculture and commercial fishing.



Phone: 831.423.0588 Fax: 831.423.0587 www.pacificlegacy.com

Dr. Richard Arnold Entomological Consulting Services, Ltd. Page 3

The town of Scotts Valley was named for Hiram Scott, who bought Rancho San Agustin from Joseph Ladd Majors in 1850. Majors, in turn, had been granted the Rancho by the Mexican government in 1841. Over the next few years, a predominantly agricultural settlement began to grow up around the Scott House. The local economy was primarily based on the dairy industry (Clark 1986).

In 1966 the City of Scotts Valley was incorporated, and over the next several decades, the population of Scotts Valley grew as commuters to San Jose and Santa Cruz took up residence, as did students from both UC Santa Cruz and Bethany Bible College.

ARCHIVAL RESEARCH

The Northwest Information Center (NWIC) of the California Historical Resources Information Center conducted a records search of the project area (File No.07-1497), which included a review of:

- NWIC site and study base maps;
- National Register of Historic Places (Directory of Determinations of Eligibility), California Office of Historic Preservation, Volumes I and II, 1990;
- California Historical Landmarks(State of California 1990);
- California Points of Historical Interestlisting (May 1992).

The archival search indicated five studies had previously been performed in the project APE(S-3913, S-4125, S-6296, S-16703, S-16704), and that 51 had been performed within $\frac{1}{2}$ mile of the project APE. None of these studies found resources within the project APE

There are no cultural resources previously recorded in the project APE nor are there any other resources listed in the National Register of Historic Places, the California Points of Historical Interest, or the California State Historic Landmarks. Within 1/2 mile of the project APE, there are three previously recorded Prehistoric cultural resources (CA-SCR-78, CA-SCR-338, and CA-SCR-343), and two previously recorded mixed-component (prehistoric and historic) archaeological sites (CA-SCR-88/H, CA-SCR-112/H). Copies of the site records are available under confidential cover upon request.

A request was submitted to the California Native American Heritage Commission to consult their Sacred Lands Files in order to identify other culturally significant properties at the project location. In a letter dated April 25 2008, the Commission reported that no sacred lands were known to the Commission within the project area (see Attachment).

ARCHAEOLOGICAL SURVEY

An archaeological reconnaissance was conducted for this project by Patricia Paramoure, B.A. on April 30, 2008. Mr. Paramoure has three years of California archaeology and cultural resource management experience.



Phone: 831.423.0588 Fax: 831.423.0587 www.pacificlegacy.com

Dr. Richard Arnold Entomological Consulting Services, Ltd. Page 4

Dense vegetation limited visibility. Nonetheless, athorough inspection of the ground surface over the entirety of both properties indicates that there are no cultural resources present. However, a raised berm was found on the Sugar Pine Lane property, and was likely the result of previous grading activity. Also, Bea Burns, the resident at 504 Lockewood stated that local rumor held that a person had been buried where the garage currently stands, and that a stagecoach stop had been present at this location. However, Ms. Paramoure found no indication that either statement was true.

STUDY FINDINGS

No heritage resources are previously recorded within the project area. No prehistoric or historic resources were newly identified within the project area during the reconnaissance survey.

RECOMMENDATIONS

Clearance for the project is recommended as no heritage resources are known to be present in the project area. No adverse affect to historic properties are anticipated and no protection measures are recommended. Because there are no indications that cultural resources exist in the project area further archaeological work is not recommended. If archaeological remains are discovered in the course of construction activities, construction should be halted and the potential resource evaluated by a qualified archaeologist. The archaeologist will recommend appropriate mitigation measures.

If human remains are encountered during construction or any other phase of development, work in the area of the discovery must be halted, the Santa Cruz County coronernotified, and the provisions of Public Resources Code 5097.98-99, Health and Safety Code 7050.5 carried out. If the remains are determined to be Native American, then the Native American Heritage Commission (NAHC) will be notified within 24 hours as required by Public Resoures Code 5097. The NAHC will notify designated Most Likely Descendants who will provide recommendations for the treatment of the remains within 48 hours of being granted access to the site. The NAHC will mediate any disputes regarding treatment of remains.

Please contact me with any questions at 423-0588 ext. 17, or by email at armstrong@pacificlegacy.com

Sincerely,

Matthew Armstrong, M.A. Archaeologist/Project Supervisor

Phone: 831.423.0588 Fax: 831.423.0587 www.pacificlegacy.com

Dr. Richard Arnold Entomological Consulting Services, Ltd. Page 5

cc: Northwest Information Center, Sonoma State University

cc: Thomas L. Jackson

Attachments: Figure 1. Project Vicinity Map

Figure 2. Project Location Map

Native American consultation correspondence

REFERENCES CITED:

Clark, D. T.

1986 Santa Cruz County Place Names: A Geographical Dictionary. Santa Cruz Historical Society, Santa Cruz, CA.

Edwards, R. and C. Simpson-Smith

1998 Reconnaissance Survey Extending the Boundaries of CA-SCR-93/H, an Urban Prehistoric Site in the City of Santa Cruz, Santa Cruz County, Calfornia. On file, Northwest Information Center, Sonoma State University, Rohnert Park, CA.

Hoover, M. B., H. E. Rensch, E. G. Rensch, and W. N. Abeloe
1990 Historic Spots in California Stanford University Press, Stanford, CA.

Jones, T. L.

1991 Marine-Resource Value and the Priority of Coastal Settlement: A California Perspective. American Antiquity 56:419-443.

King, C.

1994 Central Ohlone Ethnohistory. In, The Ohlone Past and Present: Native Americans of the San Francisco Bay Region, edited by L.J. Bead, pp. 203-228. Ballena Press, Menlo Park, CA.

Milliken, R.

1994 The Costanoan-Yokuts Language Boundary in the Contact Period. In, The Ohlone Past and Present: Native Americans of the San Francisco Bay Region edited by L.J. Bead, pp. 165–181. Ballena Press, Menlo Park, CA.

Moratto, M.J.

1984 California Archaeology, Academic Press, Orlando, FL.



Phone: 831.423.0588 Fax: 831.423.0587 www.pacificlegacy.com

Dr. Richard Arnold Entomological Consulting Services, Ltd. Page 6

Pulcheon, A., T. E. Jones, and M. Konzak

2006 Cultural Resources Background Report and Archaeological Sensitivity Map for the City of Santa Cruz General Plan Update, Santa Cruz, Santa Cruz County, California. On file, Northwest Information Center, Sonoma State University, Rohnert Park, California.

Shipley, W.F.

1978 Native Languages of California. In, *Handbook of North American Indians* edited by W. Sturtevant, Volume 8 (California), pp. 80-90. Smithsonian Institution, Washington, D.C.

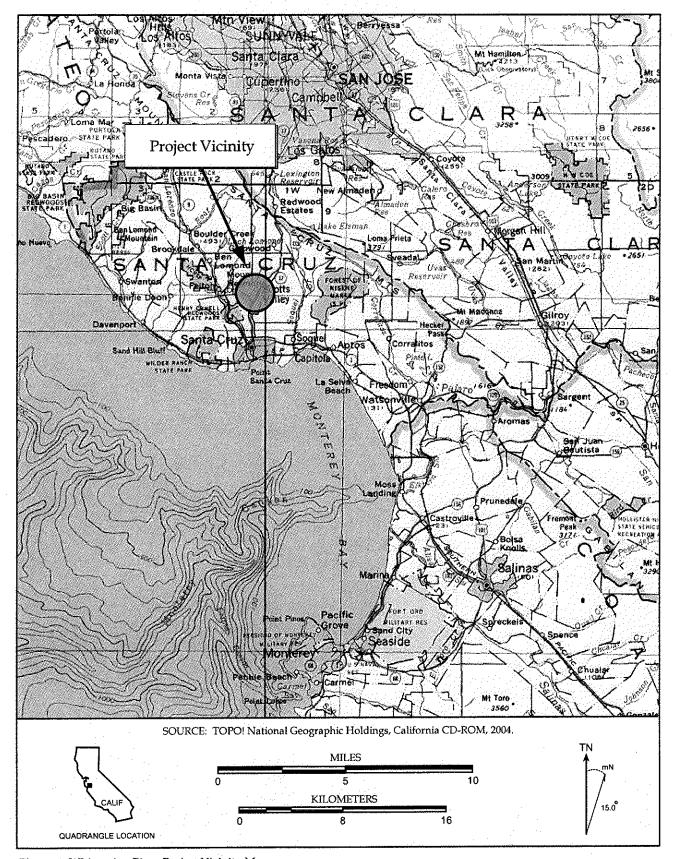


Figure 1. Whispering Pines Project Vicinity Map



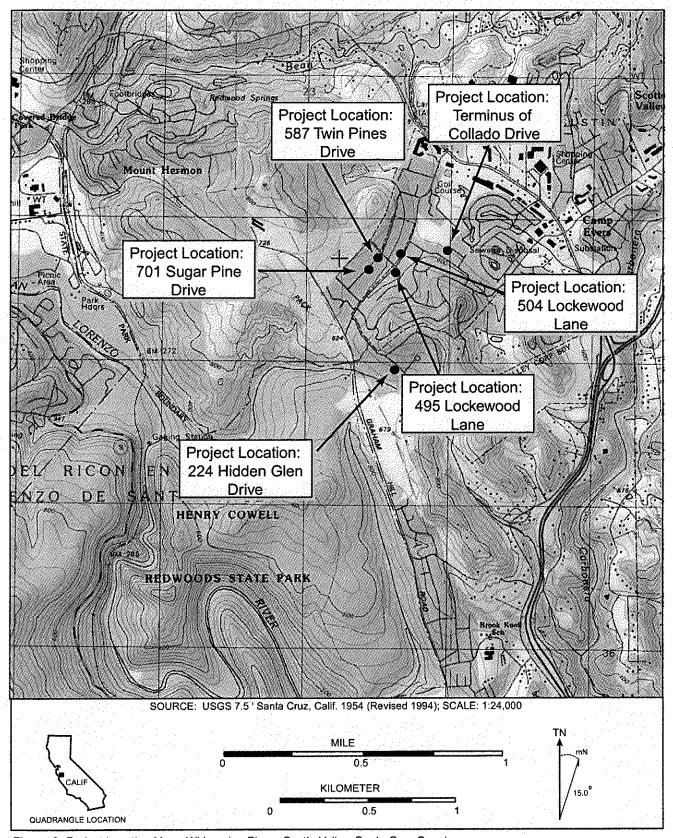


Figure 2: Project Location Map - Whispering Pines, Scotts Valley, Santa Cruz County.



ATTACHMENT 1

NATIVE AMERICAN HERITAGE COMMISSION CORRESPONDENCE

STATE OF CALIFORNIA

mold Schwarzenegger, Governor

NATIVE AMERICAN HERITAGE COMMISSION 915 CAPITOL MALL, ROOM 364 SACRAMENTO, CA 95814 (916) 653-4082 Fax (916) 657-5390



April 25, 2008

Matthew Armstrong, MA rPA Archaeologist/Project Supervisor Central Coast Division **PACIFIC LEGACY** 1525 Seabright Ave. Santa Cruz, CA 95062

Sent by Fax: 831-423-0587 Number of Pages: 2

Re: Proposed: Whisperin Plnes Project, Santa Cruz, County.

Dear Mr. Armstrong:

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

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

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

Sinderely,

Debble Pllas-Treadway

Environmental Specialist III

Ohlone/Costanoan

Ohlone/Costanoan

Ontone/Costanoan

Native American Contacts Santa Cruz County April 25, 2008

Linda G. Yamane 1585 Mira Mar Ave.

, CA 93955-3326

- CA 95363

Ohlone/Costanoan

(831) 394-5915

Seaside

Jakki Kehi

Patterson -

Amah/MutsunTribai Band Irene Zwierlein, Chalrperson 789 Canada Road

, CA 94062 Woodside amah_mutsun@yahoo.com

(650) 851-7747 - Home

(650) 851-7489 - Fax

Costanoan Ohlone Rumsen-Mutsen Tribe

Patrick Orozco

644 Peartree Drive

, CA 95075 Watsonville

yanapvoic@earthlink.net

(831) 728-8471 (831) 728-8471

(209) 892-2436 (209) 892-2435 - Fax

720 North 2nd Street

jakki@bigvalley.net

Indian Canyon Mutsun Band of Costanoan

Ann Marie Sayers, Chairperson

P.O. Box 28

Hollister , CA 95024

ams@garlic.com 831-637-4238

Amah MutsunTribal Band Valentin Lopez, Chairperson 3015 Eastern Ave. #40

- CA 95821 Sacramento vlopez@amahmutsun.org

(916) 481-5785

Amah MutsunTribal Band

Edward Ketchum 35867 Yosemite Ave

. CA 95616 Davis

aerieways@aol.com

Ohlone/Costanoan

Ohlone/Costanoan

Ohlone/Costanoan

Northern Valley Yokuts

Trina Marine Ruano Family Ramona Garibay, Representative

16010 Halmar Lane

Lathrop . CA 95330 Ohlone/Costanoan

Bay Miwok

Plains Miwok

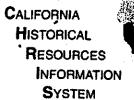
Patwin

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

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.84 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Whisperin Pines project, Santa Cruz County.

ATTACHMENT 2 CALIFORNIA HISTORIC INFORMATION SYSTEM CORRESPONDENCE





ALAMEDA COLUSA CONTRA COSTA LAKE MARIN MENDOCINO MONTEREY NAPA SAN BENITO SAN FRANCISCO

SAN MATEO SANTA CLARA SANTA CRUZ SOLANO SONOMA YOLO

Northwest Information Center Sonoma State University 1303 Maurice Avenue Rohnert Park, California 94928-3609 Tel: 707.664.0880 • Fax: 707.664.0890 E-mail: leigh.jordan@sonoma.edu

MEMO

Date: 22 April 2008

To: Matthew Armstrong, Pacific Legacy, Inc., 1525 Seabright Avenue, Santa Cruz,

CA 95062

From: Lisa Hagel

Re: 2135-01, Whispering Pines; NWIC File #: 07-1497

Felton 7.5'

Sites in or within 1/2 mile radius of the project area: There were no recorded sites within the project areas. CA-SCR-78 & 88/H; P-44-116, 439, & 493 are within ½ mile. Enclosed are copies of the site record forms. The site locations are plotted on your map.

Studies in or within 1/2 mile radius of the project area: S-3913, 4125, 6524, 16703, 16704, & 6296 are within the project areas. S-6365, 4029, 3889, 11302, 11492, 18843, 11963, 8139, 14239, 9816, 7848, 10535, 3812, 3877, 3930, 10701, 11470, 15942, 5954, 11366, 13328, 24572, 8313, 7032, 17528, 10841, 3855, 4113, 18671, 19012, 20127, 11454, 10201, 16354, 11374, 14012, 11251, 4124, 3993, 28809, 26410, 29406, 28468, 20624, 24149, 24207, 23538, 32116, 31499, & 28491 are within ½ mile. Enclosed are bibliographic references for the reports. The study locations are plotted on the enclosed map.

OHP Historic Properties Directory: Copied the indices for Scotts Valley & vicinity.

California Inventory of Historical Resources: There were no listings in Scotts Valley.

ATTACHMENT 3 RESUMES OF PACIFIC LEGACY PERSONNEL

Matthew D. Armstrong



Project Supervisor / Archaeologist

Summary of Qualifications

Mr. Armstrong has been involved in archaeology since 1996, and has worked as a professional archaeologist since 2002. His experience includes working in capacities ranging from field technician through project manager and primary report author for projects throughout California, including work as a contractor and later as an intern at Vandenberg Air Force Base in Santa Barbara County, California.

Mr. Armstrong has executed cultural resources inventory and survey plans, monitoring plans, and significance testing plans. In addition, he has worked as part of multi-disciplinary NEPA teams in producing general environmental planning and compliance documents.

Education

M.A., Anthropology - Archaeology Emphasis, University of California, Santa Barbara, 2006 B.A., Anthropology (Major), History (Minor), University of California, Santa Cruz, 1998 Certificate in archaeological field and lab techniques, Cabrillo College, Aptos, California, 2000

Selected Experience

As Crew Chief

University of California – Led cartography crew for UC Santa Barbara's 2005 field school. Created topographic maps of archaeological sites, and taught the techniques to students at the field school.

Various Municipal and County Governments – Performed road surveys, parcel surveys, CRHR eligibility evaluation excavation, and archaeological site boundary testing in support of applications for building permits in the counties of Santa Cruz, Monterey, San Luis Obispo, Ventura, and Santa Barbara. Performed as an employee of Garcia and Associates, URS Corporation, and Pacific Legacy, Inc.

As Field Director or Project Manager

Private Clients for Municipal and County Governments – Performed or supervised parcel surveys, CRHR eligibility testing, and archaeological site boundary testing for properties in Santa Cruz, Monterey, and Santa Barbara Counties. Wrote reports for all projects. Performed as an employee of URS Corporation and Pacific Legacy, Inc.

FHWA/Caltrans – Performed and supervised archaeological survey and wrote and prepared report for FHWA/Caltrans projects in Santa Barbara County.

Energy Projects and Utilities – Performed and supervised archaeological survey and recovery, prepared reports, and consulted with public agencies for electrical transmission lines, gas/oil pipelines, water pipelines, hydroelectric facilities, and oil fields in the counties of Ventura, Los Angeles, Tulare, Kern, Placer, and El Dorado.

General Work History

June 2007 to present

Project Supervisor/Archaeologist, Pacific Legacy, Inc.

- · Planned and executed cultural resources surveys and excavations.
- Report author.
- Consulted with clients, Native American individuals and organizations, and government agencies.

February 2006 to May 2007

Archaeologist/Project Scientist, URS Corporation, Santa Barbara, CA

Planned and executed cultural resources surveys and excavations.

Pacific Legacy Incorporated

Matthew D. Armstrong



Project Supervisor / Archaeologist

- Report author.
- Consulted with clients, Native American individuals and organizations, and government agencies.
- As necessary, assisted personnel from other resource areas (biology, geology, etc.)

September 2005 to February 2007

Project Manager, GIS Records Project, Central Coast Archaeological Information Center, University of California, Santa Barbara.

- Trained, supervised, and coordinated personnel.
- Performed quality control on archaeological site shapefiles generated by project personnel.

April 2004 to September 2005

Archaeologist/Environmental Intern, Vandenberg Air Force Base, California

- · Assisted in project review to determine necessity of cultural resources studies.
- Performed surveillance of threatened and sensitive archaeological sites.
- Helped to maintain databases to allow Native American traditional use access to the base.
- Performed review of documents submitted by cultural resources contractors.
- Built and maintained an archaeological/historic site database.

2002-2004

Field and Laboratory Technician/Archaeologist, Applied Earthworks, Lompoc, California

- Field technician on NRHP/CRHR eligibility testing excavations and data recovery excavations.
- Lab technician, performing basic lab work, and faunal analysis.

Professional Affiliations & Memberships

Society for American Archaeology Society for California Archaeology Register of Professional Archaeologists

Patricia Paramoure



Archaeological Field Technician

Summary of Qualifications

Ms. Paramoure has been involved in archaeology for over fifteen years, and has been working as a field technician for the last three years.

Education

B.A., Anthropology, University of California, Santa Barbara, 1991 Certificate in archaeological field and lab techniques, Cabrillo College, Aptos, California, 2006 A.A. in archaeological field and lab techniques, Cabrillo College, Aptos, California, 2006

Work Experience

Archaeological Resources Management, San Jose, CA, 2006-2008

As a field technician for Archaeological Resources Management, Ms. Paramoure performed archaeological survey, excavation, burial recovery, and construction monitoring for projects in Santa Cruz, Santa Clara, Monterey, and San Benito Counties.

Pacific Legacy, Inc., Santa Cruz, CA 2007-2008:

As a field technician for Pacific Legacy, Inc., Ms. Paramoure has performed archaeological surveys and monitoring under the guidance of supervisory staff. This has included projects in Santa Cruz, Monterey, and Tulare Counties.

Cogstone Resources Management, Santa Ana, CA 2004

Ms. Paramoure participated in survey and excavation at the Santa Ysabela Ranch site in San Luis Obispo County.

Professional Affiliations & Memberships

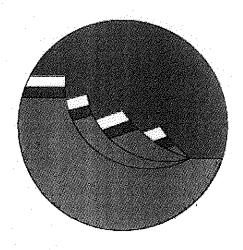
Santa Cruz Archaeological Society Society for California Archaeology Archaeological Conservancy

GEOTECHNICAL INVESTIGATION

504 Lockewood Lane Scotts Valley, Santa Cruz County, California

Submitted to:

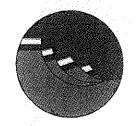
Hochler Construction 325 Canham Road Scotts Valley, California 95066



Prepared by:

CMAG ENGINEERING, INC.

Project No. 14-125-SC September 10, 2014



CMAG ENGINEERING, INC.

P.O. BOX 640 APTOS, CALIFORNIA 95001 PHONE: 831.475.1411 WWW.CMAGENGINEERING.COM

> September 10, 2014 Project No. 14-125-SC

Hochler Construction 325 Canham Road Scotts Valley, California 95066

Attn: Rick Hochler

SUBJECT:

GEOTECHNICAL INVESTIGATION

Proposed 3 Lot Minor Land Division

504 Lockewood Lane, Scotts Valley, Santa Cruz County, California

APN 067-041-14

Dear Mr. Hochler:

In accordance with your authorization, we have completed a geotechnical investigation for the subject project. This report summarizes our findings, conclusions, and recommendations for development of the minor land division from a geotechnical standpoint. It is a pleasure being associated with you on this project. If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office.

Sincerely,

CMAG ENGINEERING, INC.

Adrian L. Garner, PE, GE Principal Engineer C 66087, GE 2814 Expires 6/30/16

Attachments 1.

Figures and Standard Details

Appendices 1.

Appendix A Field Exploration Program

2. Appendix B Laboratory Testing Program

Distribution: Addressee (4 Hard Copies; Electronic Copy)

Geotechnical Investigation 504 Lockewood Lane Santa Cruz County, California

September 10, 2014 Project No. 14-125-SC Page ii

TABLE OF CONTENTS

1.0	INTR	ODUCTION	
	1.1	Terms of Reference	
•	1.2	Site Location	
	1.3	Surface Conditions	. '
2.0	PPO	IECT DESCRIPTION	
2.0	FRO.	JECT DESCRIPTION	. 2
3.0	FIELI	D EXPLORATION AND LABORATORY TESTING PROGRAMS	. 2
4.0	SUBS	SURFACE CONDITIONS AND EARTH MATERIALS	,
	4.1	General.	- 2
	4.2	Santa Margarita Sandstone - Tsm	
	4.3	Groundwater	
5.0	GEO	TECHNICAL HAZARDS	. 3
	5.1	General	. 3
•	5.2	Seismic Shaking.	. 3
	5.3	Collateral Seismic Hazards	. 4
6.0	DISC	USSIONS AND CONCLUSIONS	. 4
7.0			
7.0	REGU	OMMENDATIONS	. 4
	7.1 7.2	General.	. 4
	7.2.1	Site Grading	. 5
	7.2.1	Site Clearing.	. 5
	7.2.3	Preparation of On-Site Soils	. 5
	7.2.4	Cut and Fill Slopes	. 7
	7.2.5	Utility Trenches	. 7
	7.2.6	Vibration During Compaction	. 7
	7.2.7	Excavating Conditions.	. 8
i.	7.3	Surface Drainage Foundations	. გ
	7.3.1	Conventional Shallow Foundations.	. 9
	7.3.2	Concrete Slabs-on-Grade.	. ყ
	7.3.3	Settlements.	. 9 10
	7.4	Retaining Structures.	1 () 1 ()
	7.4.1	General.	1 U 1 N
	7.4.2	Lateral Pressure Due to Earthquake Motions	10 10
	7.4.3	Lateral Earth Pressures	10 10
	7.4.4	Backfill	. U 11
	7.4.5	Backfill Drainage.	11
	7.5	Plan Review	12
	7.6	Observation and Testing	12

Geotechnical Investigation 504 Lockewood Lane Santa Cruz County, California	September 10, 2014 Project No. 14-125-SC Page ii				
8.0 LIMITATIONS					
REFERENCES					
TABLES Table 1. Seismic Design Parameters - 2013 CBC Table 2. Lateral Earth Pressures FIGURES AND STANDARD DETAILS Figure 1: Surcharge Pressure Diagram Figure 2: Typical Backdrain Detail					
APPENDICES					
APPENDIX A Field Exploration Program					
APPENDIX B Laboratory Testing Program					

1.0 INTRODUCTION

This report presents the results of our geotechnical investigation for the proposed 3 Lot Minor Land Division for the construction of 3 single family residences at 504 Lockewood Lane in Santa Cruz County, California.

The purpose of our investigation was to provide information regarding the surface and subsurface soil and bedrock conditions, and based on our findings, provide geotechnical recommendations for the design and construction of the proposed 3 single family Conclusions and recommendations related to site grading, drainage, conventional shallow foundations, slabs-on-grade, retaining structures, and pavements are presented herein.

1.1 **Terms of Reference**

CMAG Engineering, Inc.'s (CMAG) scope of work for this phase of the project included site reconnaissance, review of the subsurface exploration and laboratory testing performed by Butano Geotechnical Engineering, Inc., and preparation of this report.

The work was undertaken in accordance with CMAG's Proposal for Geotechnical Services dated August 9, 2014.

The recommendations contained in this report are subject to the limitations presented in Section 8.0 of this report.

1.2 **Site Location**

The project site is located on the east side of Highway 9 and west of Highway 17, southwest of Scotts Valley in Santa Cruz County, California. The site location is shown on the Location Map, Appendix A, Figure A-1.

1.3 **Surface Conditions**

The parcel is approximately 37,000 square feet in size and rectangular in shape. The parcel ascends from Lockewood Lane with a slight slope. An existing single family residence is located on the property. The property is vegetated with brush and scattered trees. A portion of the property has recently been cleared of brush and trees.

2.0 PROJECT DESCRIPTION

It is our understanding that the project consists of the construction of 3 new single family residences and associated improvements. The existing residence is to be removed prior to the construction of the proposed 3 single family residences. Anticipated construction for the proposed residences consists of wood frame walls and roofs, with raised wood floors founded on conventional shallow foundations with garage concrete slabs-on-grade. Exact wall, column, and foundation loads are unavailable, but are expected to be typical of such construction.

3.0 FIELD EXPLORATION AND LABORATORY TESTING PROGRAMS

Adrian L. Garner, PE, GE performed the field exploration and laboratory testing under Butano Geotechnical Engineering, Inc. in 2006. We have attached the field exploration and laboratory testing appendices to this report. Three borings were advanced to depths between 8.5± and 25.5± feet below the existing grades on September 6, 2006. Details of the field exploration program, including the Boring Logs, are presented in Appendix A. Details of the laboratory testing program are presented in Appendix B. Test results are presented on the Boring Logs and in Appendix B.

4.0 SUBSURFACE CONDITIONS AND EARTH MATERIALS

4.1 General

The geologic map of Santa Cruz County (Brabb, 1989) depicts the subject property as underlain by Santa Margarita Sandstone (Tsm; Upper Miocene) consisting of very thick bedded to massive thickly cross bedded yellowish-gray to white friable granular medium-to-fined-grained arkosic sandstone; locally calcareous and locally bituminous.

Three borings were advanced in the vicinity of the proposed single family residences. The subsurface profile consisted of highly weathered Santa Margarita Sandstone that exhibited characteristics of soil and not bedrock. Complete soil profiles are presented on the Boring Logs, Appendix A, Figures A-4 through A-6. The boring locations are shown on the Boring Location Plan, Figure A-2.

4.2 Santa Margarita Sandstone - Tsm

The subsurface profile generally consisted of silty sands and poorly graded sands with silt that varied in color, moisture content, and density. The near surface soils were generally very loose to loose increasing in density to medium dense with depth. The sand was generally fine to medium grained.

4.3 Groundwater

Groundwater was not encountered during the field exploration.

It should be noted that groundwater conditions, perched or regional, may vary with location and may fluctuate with variations in rainfall, runoff, irrigation, and other changes to the conditions existing at the time our field investigation was performed.

5.0 GEOTECHNICAL HAZARDS

5.1 General

In our opinion, the geotechnical hazards that could potentially affect the proposed project are:

Seismic shaking

5.2 Seismic Shaking

The seismic hazard due to seismic shaking in California is high in many areas, indicative of the number of large earthquakes that have occurred historically. Intense seismic shaking may occur at the site during the design lifetime of the proposed structures from an earthquake along one of the local fault systems. Generally, the intensity of shaking will increase the closer the site is to the epicenter of an earthquake, however, seismic shaking is a complex phenomenon and may be modified by local topography and soil conditions. The transmission of earthquake vibrations from the ground into the structures may cause structural damage.

The County of Santa Cruz has adopted the seismic provisions set forth in the 2013 California Building Code (2013 CBC) to address seismic shaking. The seismic provisions in the 2013 CBC are minimum load requirements for the seismic design for the proposed structures. The provisions set forth in the 2013 CBC will not prevent structural and nonstructural damage from direct fault ground surface rupture, coseismic ground cracking, liquefaction and lateral spreading, seismically induced differential compaction, or seismically induced landsliding.

Table 1 has been constructed based on the 2013 CBC requirements for the seismic design of the proposed structures. The Site Class has been determined based on the field investigation and laboratory testing.

Table 1. Seismic Design Parameters - 2013 CBC

S _s	S ₁	Site Class	Fa	F _v	S _{MS}	S _{M1}	S _{DS}	S _{D1}	PGA _м
1.500g	0.600g	D .	1.0	1.5	1.500g	0.900g	1.000g	0.600g	0.524g

5.3 Collateral Seismic Hazards

In addition to seismic shaking, other seismic hazards that may have an adverse affect to the site and/or the structures are: fault ground surface rupture, coseismic ground cracking, seismically induced liquefaction and lateral spreading, seismically induced differential compaction, and seismically induced landsliding. It is our opinion that the potential for collateral seismic hazards to affect the site, and to damage the proposed structures is low.

6.0 DISCUSSIONS AND CONCLUSIONS

The site is generally underlain by silty sands and poorly graded sands with silt that vary from very loose to medium dense, however are generally very loose to loose in the upper 3+ feet. The near surface silty sands should be considered to be highly erodible.

Groundwater was not encountered during the course of our field exploration.

7.0 RECOMMENDATIONS

7.1 General

Based on the results of the field investigation, laboratory testing, and engineering analysis, it is our opinion, from the geotechnical standpoint, the subject site will be suitable for the proposed development provided the recommendations presented herein are implemented during grading and construction.

We recommend that the proposed single family residences be founded on conventional shallow foundation systems. To help alleviate the potential for differential settlement due to the very loose near surface silty sands beneath conventional shallow foundations, concrete slabs-on-grade, drive areas, and new fills, site preparation consisting of overexcavation and recompaction will be required. See Subsection 7.2.2 for earthwork recommendations.

To help alleviate the potential for surface water, and/or irrigation water to migrate beneath the proposed residences, and to alleviate the potential for erosion of the near surface soils to adversely affect the foundation systems, we recommend that the exterior footings be founded a minimum of 24 inches below finished grade.

7.2 Site Grading

7.2.1 Site Clearing

Prior to grading, the areas to be developed for structures, pavements and other improvements, should be stripped of any vegetation and cleared of any surface or subsurface obstructions, including any existing foundations, utility lines, basements, septic tanks, pavements, stockpiled fills, and miscellaneous debris.

Surface vegetation and organically contaminated topsoil should be removed from areas to be graded. The required depth of stripping will vary with the time of year the work is done and should be observed by the Geotechnical Engineer. It is generally anticipated that the required depth of stripping will be 6 to 12 inches.

Holes resulting from the removal of buried obstructions that extend below finished site grades should be backfilled with compacted engineered fill compacted to the requirements of Subsection 7.2.2.

7.2.2 Preparation of On-Site Soils

The results of the field investigation and laboratory testing indicate that the near-surface soils on the subject site are very loose to loose. In order to ensure uniform compression characteristics and to obviate any potential for differential settlements, site preparation, consisting of overexcavation and recompaction will be required prior to placement of conventional shallow foundations, concrete slabs-on-grade, drive areas, and new fills. The depths of overexcavation and recompaction recommended herein are subject to review during grading.

For conventional shallow foundations (including site retaining walls), the native soil should be overexcavated a minimum of 1 foot below the bottom of the footing, or 1.5 feet below existing grade, whichever is greater. The exposed surface should then be scarified, moisture conditioned, and compacted to a minimum of 90 percent relative compaction. The material which was removed should then be replaced with engineered fill compacted to a minimum of 90 percent relative compaction. This zone of reworking shall extend a minimum of 3 feet laterally beyond the conventional shallow foundation footprint.

For concrete slabs-on-grade, the native soil should be overexcavated a minimum of 1 foot below the bottom of the crushed rock, or 1.5 feet below existing grade, whichever is greater. The exposed surface should then be scarified, moisture conditioned, and compacted to a minimum of 90 percent relative compaction. The material which was removed should then be replaced with engineered fill compacted to a minimum of 90 percent relative compaction. This zone of reworking shall extend a minimum of 3 feet laterally beyond the concrete slabs-on-grade.

In drive areas (including concrete, asphalt, and non-permeable pavers), the native soil should be overexcavated to a minimum of 1 foot below the bottom of the aggregate base course, or 1.5 feet below existing grade, whichever is greater. The exposed surface should then be scarified, moisture conditioned, and compacted to a minimum of 90 percent relative compaction. The material which was removed should then be replaced as engineered fill compacted to a minimum of 90 percent relative compaction. The upper 6 inches of subgrade and all aggregate base and subbase in drive areas shall be compacted to achieve a minimum relative compaction of 95 percent. This zone of reworking should extend laterally a minimum of 2 feet beyond the drive areas.

Beneath new fills, the native soil should be removed to a minimum of 1.5 feet below existing grade. The exposed surface should then be scarified, moisture conditioned, and compacted to a minimum of 90 percent relative compaction. The material which was removed should then be replaced as engineered fill compacted to a minimum of 90 percent relative compaction.

The on-site soils may be used as engineered fill. The soil should be verified by a representative of CMAG in the field during grading operations. All soils, both existing on-site and imported, to be used as fill, should contain less than 3 percent organics and be free of debris and gravel over 2.5 inches in maximum dimension.

Imported fill material should be approved by a representative of CMAG prior to importing. Soils having a significant expansion potential should not be used as imported fill. The Geotechnical Engineer should be notified not less than 5 working days in advance of placing any fill or base course material proposed for import. Each proposed source of import material should be sampled, tested, and approved by the Geotechnical Engineer prior to delivery of <u>any</u> soils imported for use on the site.

All fill should be compacted with heavy vibratory equipment. Fill should be compacted by mechanical means in uniform horizontal loose lifts not exceeding 8 inches in thickness. The relative compaction and required moisture content shall be based on the maximum dry density and optimum moisture content obtained in accordance with ASTM D1557. The Geotechnical Engineer should observe the overexcavations, and placement of engineered fill.

Any surface or subsurface obstruction, or questionable material encountered during grading, should be brought immediately to the attention of the Geotechnical Engineer for proper processing as required.

7.2.3 Cut and Fill Slopes

Cut and Fill slopes are not anticipated for the project at this time. Cut and fill slopes may affect the stability of the site, and should be analyzed for overall stability and suitability by the Geotechnical Engineer if project requirements change.

7.2.4 Utility Trenches

Bedding material should consist of sand with SE not less than 30 which may then be jetted.

The on-site soils may be utilized for trench backfill. Imported fill should be free of organic material and gravel over 2.5 inches in diameter. Backfill of all exterior and interior trenches should be placed in thin lifts and mechanically compacted to achieve a relative compaction of not less than 95 percent in paved areas and 90 percent in other areas per ASTM D1557. Care should be taken not to damage utility lines.

Utility trenches that are parallel to the sides of a building should be placed so that they do not extend below a line sloping down and away at an inclination of 2:1 H:V (horizontal to vertical) from the bottom outside edge of all footings.

A 3 foot concrete plug should be placed in each trench where it passes under the exterior footings. Anti-seep collars (trench dams) should also be placed in utility trenches on steep slopes to prevent migration of water and sand.

Trenches should be capped with 1.5± feet of impermeable material. Import material should be approved by the Geotechnical Engineer prior to its use.

Trenches must be shored as required by the local regulatory agency, the State Of California Division of Industrial Safety Construction Safety Orders, and Federal OSHA requirements.

7.2.5 <u>Vibration During Compaction</u>

The neighboring residences are within close proximity to the proposed single family residences. The contractor should take all precautionary measures to minimize vibration on the site during grading operations. This may require that the engineered fill be placed in thin lifts using a static roller or hand operated equipment. It is the contractor's responsibility to ensure that the process in which the engineered fill is placed does not adversely affect the neighboring parcels.

7.2.6 Excavating Conditions

We anticipate that excavation of the on-site soils may be accomplished with standard earthmoving and trenching equipment.

Caving, due to the cohesionless nature of the on-site soils, should be anticipated during excavation.

7.2.7 Surface Drainage

Pad drainage should be designed to collect and direct surface water away from structures to approved drainage facilities. A minimum gradient of 2+ percent should be maintained and drainage should be directed toward approved swales or drainage facilities. Concentrations of surface water runoff should be handled by providing the necessary structures, paved ditches, catch basins, etc.

All roof eaves should be guttered with the outlets from the downspouts provided with adequate capacity to carry the storm water away from the structures to reduce the possibility of soil saturation and erosion.

Drainage patterns approved at the time of construction should be maintained throughout the life of the structures. The building and surface drainage facilities must not be altered nor any grading, filling, or excavation conducted in the area without prior review by the Geotechnical Engineer.

Irrigation activities at the site should be controlled and reasonable. Planter areas should not be sited adjacent to walls without implementing approved measures to contain irrigation water and prevent it from seeping into walls and under foundations and slabs-on-grade.

The surface soils are classified as highly erodible. Therefore, the finished ground surface should be planted with erosion resistant landscaping and ground cover and continually maintained to minimize surface erosion.

7.3 Foundations

7.3.1 Conventional Shallow Foundations

We recommend that conventional shallow foundations be founded on compacted engineered fill per Subsection 7.2.2.

To help alleviate the potential for surface water, and/or irrigation water to migrate beneath the proposed residences, and to alleviate the potential for erosion of the near surface soils to adversely affect the foundation systems, we recommend that the exterior footings be founded a minimum of 24 inches below finished grade.

Footing widths should be based on the allowable bearing value but not less than 12 inches for 1 story and 15 inches for 2 story structures. Interior footings depths should be at least 12 inches for 1 story and 18 inches for 2 story sections. Embedment depths should not be allowed to be affected adversely, such as through erosion, softening, digging, etc. Should local building codes require deeper embedment of the footings or wider footings, the codes must apply.

The allowable bearing capacity used should not exceed 3,000 psf. The allowable bearing capacity may be increased by one-third in the case of short duration loads, such as those induced by wind or seismic forces. In the event that footings are founded in structural fill consisting of imported materials, the allowable bearing capacities will depend on the type of these materials and should be re-evaluated.

A passive pressure of 290 psf/ft (equivalent fluid pressure) may be assumed for design purposes. Neglect passive pressure in the top 18 inches of soil. Passive pressures may be increased by one-third for seismic loading. A friction coefficient of 0.4, between near surface soil and rough concrete may be assumed for design purposes. Where both friction and the passive resistance are utilized for sliding resistance, either of the values indicated should be reduced by one-third.

Footing excavations should be observed by the Geotechnical Engineer before steel reinforcement is placed and concrete is poured.

7.3.2 Concrete Slabs-on-Grade

We recommend that concrete slab-on-grade be founded on compacted engineered fill per Subsection 7.2.2. The subgrade should be proof-rolled just prior to construction to provide a firm, relatively unyielding surface, especially if the surface has been loosened by the passage of construction traffic.

The slab-on-grade should be underlain by a minimum 4 inch thick capillary break of clean crushed rock. It is recommended that <u>neither</u> Class II baserock <u>nor</u> sand be employed as the capillary break material. Where moisture sensitive floor coverings are anticipated or vapor transmission may be a problem, a vapor retarder should be placed between the granular layer and the floor slab in order to reduce moisture condensation under the floor coverings. The vapor retarder should be specified by the slab designer. It should be noted that conventional slab-on-grade construction is not waterproof. Under-slab construction consisting of a capillary break and vapor retarder will not prevent moisture transmission through the slab-on-grade. CMAG does not practice in the field of moisture vapor transmission evaluation or mitigation. Where moisture sensitive floor coverings are to be installed, a waterproofing expert should be consulted for their recommended moisture and vapor protection measures.

7.3.3 Settlements

Total and differential settlements beneath conventional shallow foundations are expected to be within tolerable limits. Vertical movements are not expected to exceed 1 inch. Differential movements are expected to be within the normal range (½ inch) for the anticipated loads and spacings. These preliminary estimates should be reviewed by the Geotechnical Engineer when foundation plans for the proposed structures become available.

7.4 Retaining Structures

7.4.1 General

Site retaining walls may be founded on shallow foundations per the recommendations of Subsections 7.2.2 and 7.3.1.

7.4.2 <u>Lateral Pressure Due to Earthquake Motions</u>

For design purposes, the lateral force on retaining walls due to earthquake motions is 6H² lbs/horizontal foot, acting at a point 1/3H above the wall base, where H is the height of the wall in feet.

7.4.3 Lateral Earth Pressures

The lateral earth pressures presented in Table 2 are recommended for the design of retaining structures with a backdrain and backfill consisting of the native soils.

September 10, 2014 Project No. 14-125-SC Page 11

Table 2. Lateral Earth Pressures

Soil Profile	Equivalent Fluid	Pressure (psf/ft)
(H:V)	Active Pressure	At-Rest Pressure
Level	45	77
6:1	60	90
3:1	75	102

Pressure due to any surcharge loads from adjacent footings, traffic, etc., should be analyzed separately. Pressures due to these loading can be supplied upon receipt of the appropriate plans and loads. Refer to Figure 2.

7.4.4 Backfill

Backfill should be placed under engineering control. Backfill should be compacted per Subsection 7.2.2, however, precautions should be taken to ensure that heavy compaction equipment is not used immediately adjacent to walls, so as to prevent undue pressures against, and movement of, the walls.

It is recommended that granular, or relatively low expansivity, backfill be utilized, for a width equal to approximately 1/3 times the wall height, and not less than 1.5 feet, subject to review during construction.

The granular backfill should be capped with at least 12 inches of relatively impermeable material.

The use of water-stops/impermeable barriers and appropriate waterproofing should be considered for any basement construction, and for building walls which retain earth.

7.4.5 Backfill Drainage

Backdrains should be provided in the backfill, or weepholes/weepslits should be provided in retaining walls. (It is recommended that backdrains be provided for walls over 4± feet high, for retaining walls which form part of a building structure, and where any staining or efflorescence due to dripping from weepholes/weepslits would be aesthetically unacceptable.)

September 10, 2014 Project No. 14-125-SC Page 12

Backdrains should consist of 4 inch diameter SDR 35 PVC perforated pipe or equivalent, embedded in Caltrans Class 1, Type A permeable drain rock. The drain should be a minimum of 18 inches in thickness and should extend to within 12 inches from the surface. The upper 12 inches should be capped with native soils. Mirafi 140N filter fabric should be placed between the drain rock and the native soil cap. The pipe should be 4± inches above the trench bottom; a gradient of 2± percent being provided to the pipe and trench bottom; discharging into suitably protected outlets. See Figure 2 for the standard detail for the backdrain.

Perforations in backdrains are recommended as follows: 3/8 inch diameter, in 2 rows at the ends of a 120 degree arc, at 3 inch centers in each row, staggered between rows, placed downward.

Backdrains should be observed by the Geotechnical Engineer after placement of bedding and pipe and prior to the placement of clean crushed gravel.

An unobstructed outlet should be provided at the lower end of each segment of backdrain. The outlet should consist of an unperforated pipe of the same diameter, connected to the perforated pipe and extended to a protected outlet at a lower elevation on a continuous gradient of at least 1 percent.

7.5 Plan Review

The recommendations presented in this report are based on preliminary design information for the proposed project and on the findings of our geotechnical investigation. When completed, the Grading Plans, Foundation Plans and design loads should be reviewed by CMAG prior to submitting the plans and contract bidding. Additional field exploration and laboratory testing may be required upon review of the final project design plans.

7.6 Observation and Testing

Field observation and testing must be provided by a representative of CMAG to enable them to form an opinion regarding the adequacy of the site preparation, the adequacy of fill materials, and the extent to which the earthwork is performed in accordance with the geotechnical conditions present, the requirements of the regulating agencies, the project specifications, and the recommendations presented in this report. Any earthwork performed in connection with the subject project without the full knowledge of, and not under the direct observation of CMAG will render the recommendations of this report invalid.

Geotechnical Investigation 504 Lockewood Lane Santa Cruz County, California

September 10, 2014 Project No. 14-125-SC Page 13

CMAG should be notified at least 5 working days prior to any site clearing or other earthwork operations on the subject project in order to observe the stripping and disposal of unsuitable materials and to ensure coordination with the grading contractor. During this period, a preconstruction meeting should be held on the site to discuss project specifications, observation and testing requirements and responsibilities, and scheduling.

8.0 LIMITATIONS

The recommendations contained in this report are based on our field explorations, laboratory testing, and our understanding of the proposed construction. The subsurface data used in the preparation of this report was obtained from the borings drilled during our field investigation. Variation in soil, geologic, and groundwater conditions can vary significantly between sample locations. As in most projects, conditions revealed during construction excavation may be at variance with preliminary findings. If this occurs, the changed conditions must be evaluated by the Project Geotechnical Engineer and the Geologist, and revised recommendations be provided as required. In addition, if the scope of the proposed construction changes from the described in this report, our firm should also be notified.

Our investigation was performed in accordance with the usual and current standards of the profession, as they relate to this and similar localities. No other warranty, expressed or implied, is provided as to the conclusions and professional advice presented in this report.

This report is issued with the understanding that it is the responsibility of the Owner, or of his Representative, to ensure that the information and recommendations contained herein are brought to the attention of the Architect and Engineer for the project and incorporated into the plans, and that it is ensured that the Contractor and Subcontractors implement such recommendations in the field. The use of information contained in this report for bidding purposes should be done at the Contractor's option and risk.

This firm does not practice or consult in the field of safety engineering. We do not direct the Contractor's operations, and we are not responsible for other than our own personnel on the site; therefore, the safety of others is the responsibility of the Contractor. The Contractor should notify the Owner if he considers any of the recommended actions presented herein to be unsafe.

The findings of this report are considered valid as of the present date. However, changes in the conditions of a site can occur with the passage of time, whether they be due to natural events or to human activities on this or adjacent sites. In addition, changes in applicable or appropriate codes and standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, this report may become invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and revision as changed conditions are identified.

Geotechnical Investigation 504 Lockewood Lane Santa Cruz County, California

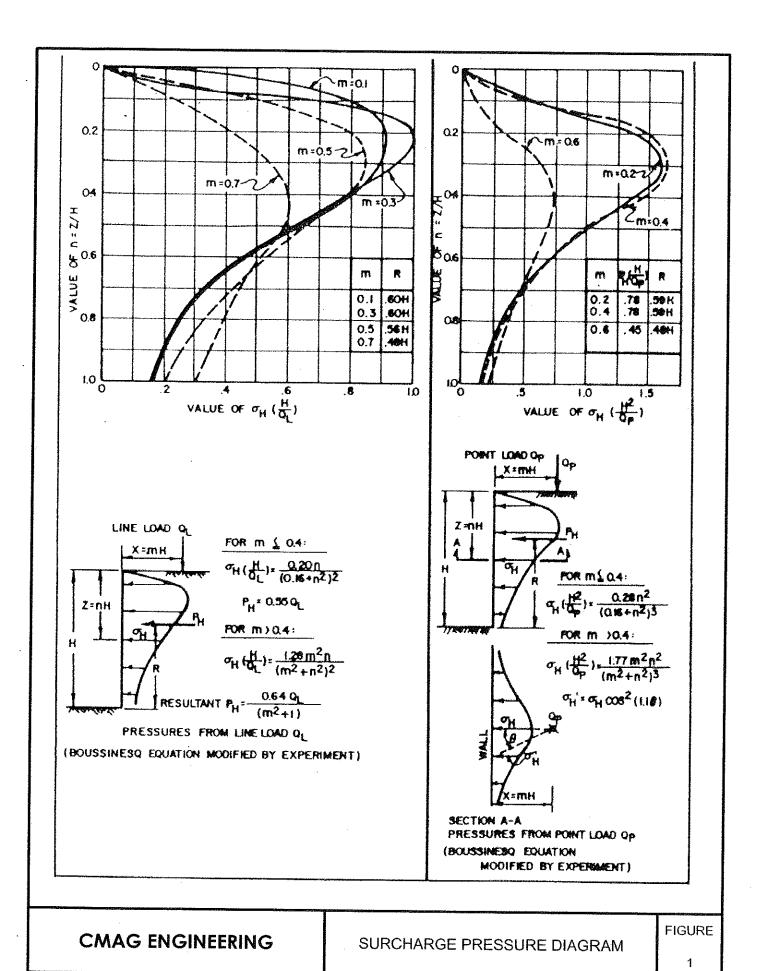
September 10, 2014 Project No. 14-125-SC Page 14

The scope of our services mutually agreed upon did not include any environmental assessment or study for the presence of hazardous to toxic materials in the soil, surface water, or air, on or below or around the site. CMAG is not a mold prevention consultant; none of our services performed in connection with the proposed project are for the purpose of mold prevention. Proper implementation of the recommendations conveyed in our reports will not itself be sufficient to prevent mold from growing in or on the structures involved.

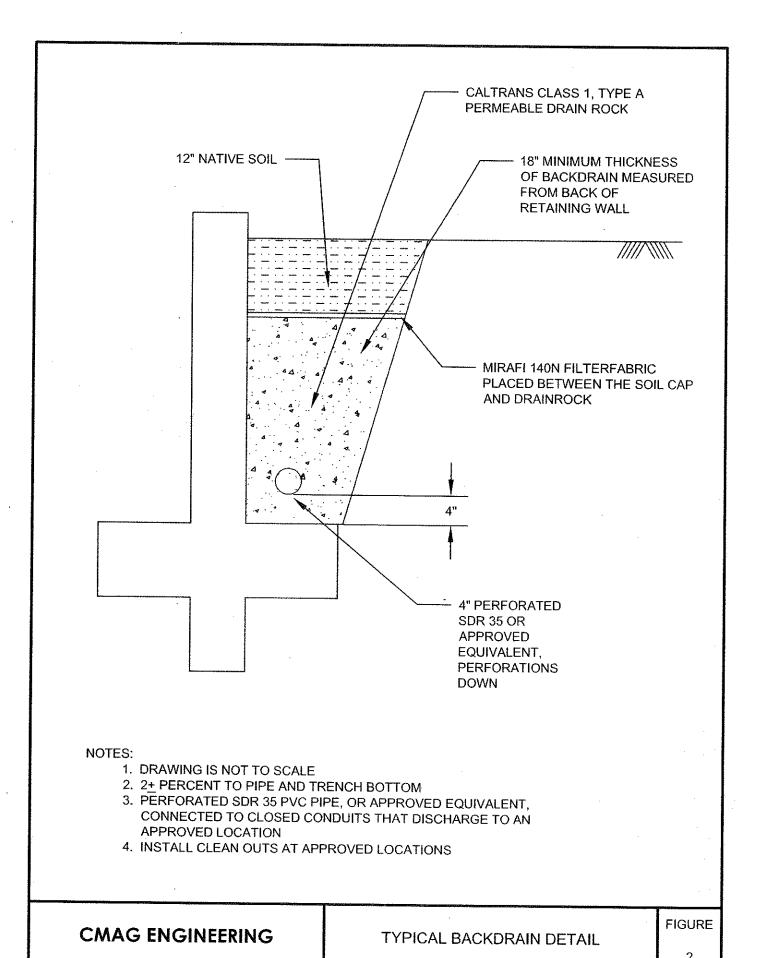
REFERENCES

- American Society of Civil Engineers (2010). *Minimum Design Loads for Buildings and Other Structures*. ASCE Standard 7-10.
- ASTM International (2008). Annual Book of ASTM Standards, Section Four, Construction. Volume 4.08, Soil and Rock (I): D 430 D 5611.
- ASTM International (2008). Annual Book of ASTM Standards, Section Four, Construction. Volume 4.09, Soil and Rock (II): D 5714 Latest.
- Brabb, E.E. (1989). Geologic Map of Santa Cruz County, California. U.S. Geological Survey Miscellaneous Investigation Series, Map I-1905, scale 1:62500.
- CMAG Engineering, Inc. (August 9, 2014). Proposal for Geotechnical Services, Proposed 3 Lot Minor Land Division, 504 Lockewood Lane, Scotts Valley, Santa Cruz County, California APN 067-041-14. Proposal No. P14-42.

International Code Council (2013). California Building Code. Volume 2.



ATACHWENT



ATTACHMENT

APPENDIX A

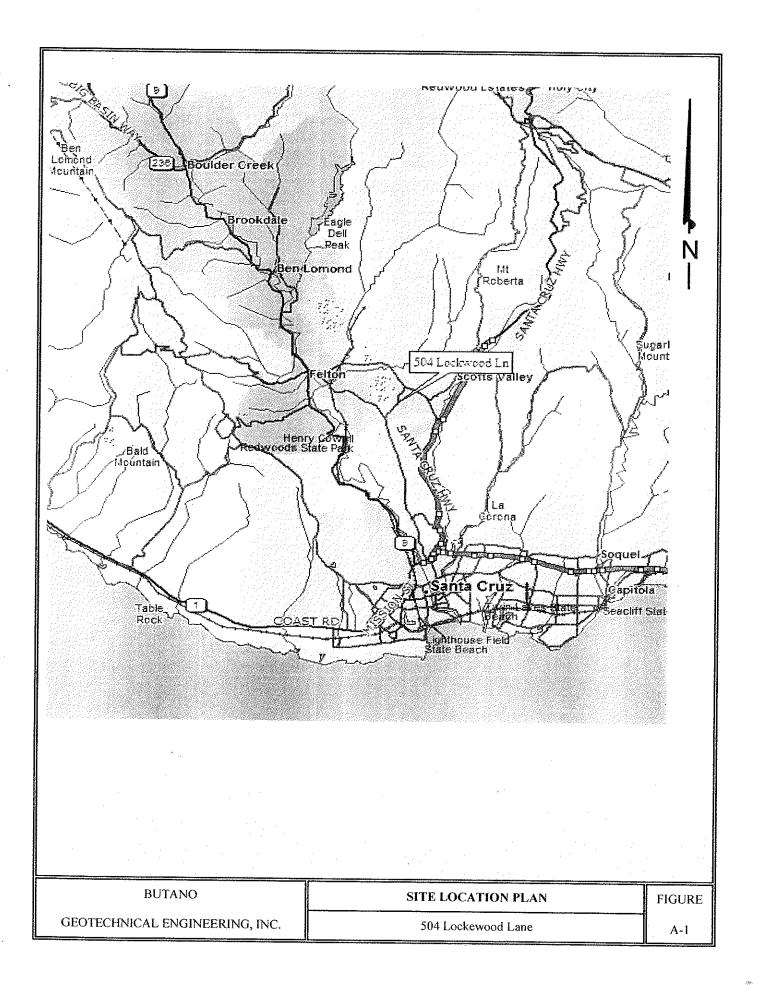
FIELD EXPLORATION PROGRAM

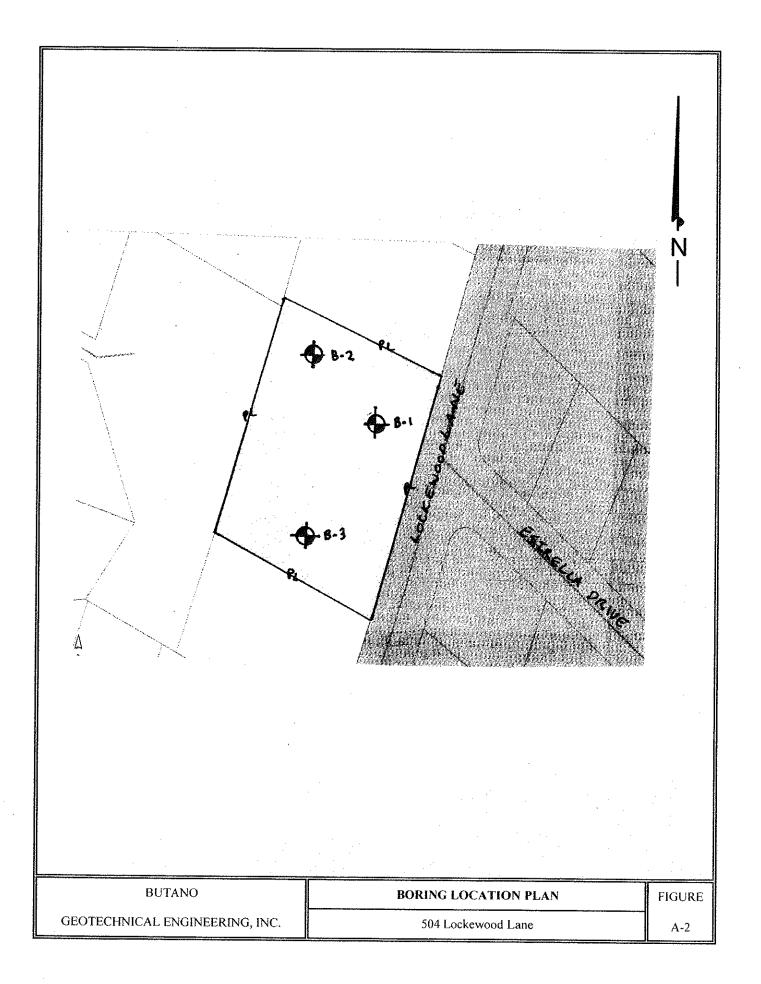
A-1.	Field Exploration Procedures	Page A-1
A-2.	Site Location Plan	Figure A-1
A-3.	Boring Location Plan	Figure A-2
A-4.	Key to Logs	Figure A-3
A-5.	Logs of the Borings	Figures A-4 through A-6

October 9, 2006 Project No. 06-149-SC Page A-1

FIELD EXPLORATION PROCEDURES

- A-1. Subsurface conditions were explored by drilling 3 borings to depths between 25.5± and 8.5± feet below the existing grade. The borings were drilled with a truck mounted drill rig equipped with 4 inch diameter solid stem augers. The Key to The Logs and the Logs of the Borings are included in Appendix A, Figures A-3 through A-6. The approximate location of the borings are shown on the Boring Location Plan, Figure A-2.
- A-2. The drill holes were located in the field by pacing from known landmarks. Their locations as shown are therefore within the accuracy of such measurement.
- A-3. The soils encountered in the borings were continuously logged in the field by a representative of Butano Geotechnical Engineering, Inc. Bulk and relatively undisturbed soil samples for identification and laboratory testing were obtained in the field. These soils were classified based on field observations and laboratory tests. The classification is in accordance with the Unified Soil Classification System (Figure A-3).
- A-4. Representative soil samples were obtained by means of a drive sampler, the hammer weight and drop being 140 lb and 30 inches, respectively. These samples were recovered using a 3 inch outside diameter Modified California Sampler or a 2 inch outside diameter Terzaghi Sampler. The number of blows required to drive the samplers 12 inches are indicated on the Boring Logs. The penetration test data has been normalized to a 2 inch outside diameter sampler and presented as N₆₀ values. The N₆₀ values are also indicated on the Boring Logs.
- A-5. Groundwater was not encountered during our field investigation.
- A-6. The borings were backfilled with the cuttings.





KEY TO LOGS

UNIFIED SOIL CLASSIFICATION SYSTEM									
P	RIMARY DIVISION	łs ·	GROUP SYMBOL	SECONDARY DIVISIONS					
	GRAVELS	CLEAN GRAVELS	GW	Well graded gravels, gravel-sand mixtures, little or no fines					
	More than half of the coarse fraction	(Less than 5% fines)	GP	Poorly graded gravels, gravel-sand mixtures, little or no fines					
COARSE GRAINED	is larger than the	GRAVEL	GM	Silty gravels, gravel-sand-silt mixtures, non-plastic fines					
SOILS More than half of	190. 4 SIEVE	WITH FINES	GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines					
the material is	SANDS	CLEAN SANDS	SW	Well graded sands, gravelly sands, little or no fines					
larger than the No. 200 sieve	More than half of the coarse fraction	(Less than 5% fines)	SP	Poorly graded sands, gravelly sands, little or no fines					
	is smaller than the No. 4 sieve	SAND	SM	Silty sands, sand-silt mixtures, non-plastic fines					
	No. 4 sieve	WITH FINES	SC	Clayey sands, sand-clay mixtures, plastic fines					
	,		ML	Inorganic silts and very fine sands, silty or clayey fine sands or clayey silts with slight plasticity					
FINE GRAINED	SILTS AN Liquid limit		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays					
SOILS More than half of			OL	Organic silts and organic silty clays of low plasticity					
the material is smaller than the			МН	Inorganic silts, micaceous or diatomacaceous fine sandy or silty soils, elastic silts					
No. 200 sieve	SILTS AN Liquid limit g	· · · =	СН	Inorganic clays of high plasticity, fat clays					
			ОН	Organic clays of medium to high plasticity, organic silts					
HIG	HLY ORGANIC SO	ILS	Pt	Peat and other highly organic soils					

		GRAIN	I SIZE	LIMIT	rs .		
SILT AND CLAY		SAND		GRA	AVEL		
SILT AND CLAT	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLES	BOULDERS
No.	200 No		.10 No. STANDARD	4 3/ SIEVE SIZE	/4 in. 3 in	1.	12 in.

RELATIVE DENSITY						
SAND AND GRAVEL	BLOWS/FT*					
VERY LOOSE	0 - 4					
LOOSE	4 - 10					
MEDIUM DENSE	10 - 30					
DENSE	30 - 50					
VERY DENSE	OVER 50					

CONSISTENCY							
SILT AND CLAY	BLOWS/FT*						
VERY SOFT	0 - 2						
SOFT	2 - 4						
FIRM	4 - 8						
STIFF	8 - 16						
VERY STIFF	16 - 32						
HARD	OVER 32						

MOISTURE	CONDITION
	RY
MO	DIST
W	'ET

BUTANO GEOTECHNICAL ENGINEERING, INC.

FIGURE

^{*} Number of blows of 140 pound hammer falling 30 inches to drive a 2 inch O.D. (1 3/8 inch I.D.) split spoon (ASTM D-1586).

	LOG OF EXPLORATORY BORING												
	ect No	.:	06-	-149-SC		Boring:		ВІ					
Proj	ect:			4 Lockewood Lane		Location:	East of Existing Residence						
				nta Cruz County, California		Elevation:							
Date				otember 6, 2006		Method of Drillin	ng:						olid Stem
Log	ged By	/: T	AL	.u	·			Auger,	140lb	. Safety	Ham	mer	
Depth (ft.)	Soil Type	urbed	Bulk	2" Ring Sample	2.5" Ring Sample	Buik Sample	Foot,	0	ity (pcf)	ontent (%		rect ear	[ests
Deptl	Soil	Undisturbed	Bu	Terzaghi Split Spoon Sample	Sta Tal	tic Water ole	Blows / Foot	N ₆₀	Dry Density (pcf)	Moisture Content (%)	c (psf)	•	Other Tests
	SM			Very Dark Gray Silty SAND.		oist. Non Plastic.							
	SM		X	Sand- Fine Grained to Mediur Grayish Brown Silty SAND. Sand- Fine Grained to Mediur	n Grained. Loose, Dry, Nor		13	4		3.4 2.5			
-10-	SP- SM		X	Gray Poorly Graded SAND w. Non Plastic. Sand- Fine Grair			15	12		2.9			
 - 15-	SP- SM			Light Brownish Gray Poorly (Dry, Non Plastic. Sand- Fine (14	13		3.6			
 -20- 	SP- SM			Grayish Brown Poorly Graded Moist, Non Plastic. Sand- Fin			22	24		5.8			
-25	SP- SM		X	Material Consistent.									
-35	JIVI			Boring Terr Groundwate	ninated @ 25.5gr Not Encounter	red.	24	27		7.0			
				BUTANO GE	OTECHNICA	L ENGINEERING,	INC.	l			<u>_</u>		FIGURE
									A-4				

	LOG OF EXPLORATORY BORING												
Proj Proj	ect No ect:	.:	50	-149-SC 4 Lockewood Lane nta Cruz County, California	Boring Locati Elevat	on:		B2 West of Existing Residence					
Date Log	e: ged By	': 		otember 6, 2006		d of Drillin	g:			ed Drill . Safety	_		olid Stem
Depth (ft.)	Soil Type	Undisturbed	Bulk	Sample Sam	nple 🔼 S	Bulk Sample	Blows / Foot	05	sity (pcf)	ontent (%)	1	rect ear	Tests
Dept	Soil	Undis	B	Terzaghi Split Spoon Sample Descrip	Static Water Table		Blows	N_{60}	Dry Density (pcf)	Moisture Content (%)	c (pst)	οф	Other Tests
	SM SM		X	Light Brownish Gray Silty SAND. Sand- Fine Grained to Medium Grai Material Consistent.		stic.	7 11	5 8		2.7 3.2	-		Parado
- 5 -	SP- SM		X	Light Brownish Gray Poorly Graded Dry, Non Plastic. Sand- Fine Grains			15	11		3.5			
-10-	SP- SM		X	Dark Gray Poorly Graded SAND w/ Moist, Non Plastic. Sand- Fine Grain			14	12		4.8			
-15				Boring Terminate Groundwater Not Boring Backfilled	Encountered.								
20													
				•		The state of the s							
25-													
30-										THE CONTRACTOR AND			The photography of the photograp
35-											`		
	BUTANO GEOTECHNICAL ENGINEERING, INC. FIGURE A-5												

	LOG OF EXPLORATORY BORING											
	ect No.	.:	06	-149-SC	Boring:		В3				***************************************	
Proj	Total Disting Resident			siden	ce							
				nta Cruz County, California	Elevation:					:		
Date				ptember 6, 2006	Method of Drilling	ng:						olid Stem
rog	ged By	: T	AL				Auger,	140lb	. Safety	Ham:	mer	r · · · · · · · · · · · · · · · · · · ·
Depth (ft.)	Soil Type	Undisturbed	Bulk	2" Ring Sample 2.5" Ring Sample	Bułk Sampie	/ Foot	09	ity (pcf)	ontent (%)	1	rect ear	Fests
Dept	Soil	Undis	Bı	. Spoon Sample 🐣 Tat	tic Water ole	Blows / Foot	N ₆₀	Dry Density (pcf)	Moisture Content (%)	c (psf)	. 。ф	Other Tests
		-		Description								2-10-1-10-11-1
	SM		X	Gray Silty SAND. Very Loose, Dry, Non Pla Sand- Fine Grained to Medium Grained.	stic.	5	3		2.1			
- 5 - - 5 -	SM		X	Grayish Brown Silty SAND. Loose, Dry, No Sand- Fine Grained to Medium Grained.	n Plastic.	13	10		2.9			
	SP- SM		X	Gray Poorly Graded SAND w/ Silt. Medium Dry, Non Plastic. Sand- Fine Grained to Medi		15	12		2.8			
-10-				Boring Terminated @ 8.5 Groundwater Not Encounte Boring Backfilled With Cutt	red.							
-15- 				•								
-20-												
-25												
	,								THE PROPERTY OF THE PROPERTY O			
-30				•								
-35												
										DIGIDE		
DO IMNO GEOTECHNICAE ENGINEERING, INC.									FIGURE A-6			

APPENDIX B

LABORATORY TESTING PROGRAM

B-1. Laboratory Testing Procedures

Page B-1

Geotechnical Investigation - Design Phase 504 Lockewood Lane Santa Cruz County, California

October 9, 2006 Project No. 06-149-SC Page B-1

LABORATORY TESTING PROCEDURES

B-1. Classification

Soils were classified according to the Unified Soil Classification System in accordance with ASTM D 2487 and D 2488. Moisture content and dry density determinations were made for representative, relatively undisturbed samples in accordance with ASTM D 2216. Results of moisture-density determinations, together with classifications, are shown on the Boring Logs, Figures A-4 through A-6.



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 KATHLEEN MOLLOY PREVISICH, PLANNING DIRECTOR

North Chennado redebada cor Cadicale da emperación (Albertai Egy).

May 11, 2015 green Applier textility out, and provide terms to provide the control of the contro

Richard Hochler
325 Canham Rd.
Scotts Valley, CA 95066

Subject: Review of Geotechnical Investigation by CMAG Engineering, Inc.

Dated September 10, 2014, Project No. 14-125-SC APN 067-041-14, Application No. REV141103

Dear Mr. Hochler,

The purpose of this letter is to inform you that the Planning Department has accepted the subject report and the following items shall be required:

vannek tyt der i des viiniskiidisteer enkresse, ynder maak jaargatiest dieselle in gastineer vaktiest y k

- 1. All construction shall comply with the recommendations of the report.
- 2. Final plans shall reference the report and include a statement that the project shall conform to the report's recommendations.
- 3. After building permit plans are prepared that are acceptable to all reviewing agencies, please submit a signed and stamped Soils (Geotechnical) Engineer Plan Review Form to Environmental Planning. Please note that the plan review form must reference the final plan set by last revision date. Any updates to report recommendations necessary to address conflicts between the report and plans must be provided via a separate addendum to the soils report.

The author of the report shall sign and stamp the completed form. An electronic copy of this form may be found on our website: www.sccoplanning.com, under "Environmental", "Geology & Soils", "Assistance & Forms", "Soils Engineer Plan Review Form".

- 4. Please submit two original, wet-signed copies of the soils report with the building permit application.
- 5. Please submit grading and drainage plans prepared by a licensed civil engineer with the building permit application. The plan should provide sufficient detail to illustrate compliance with all soils report recommendations, including those for "Preparation of Onsite Soils", (overexcavation and recompaction beneath foundations, slabs-on-grade, driveway and new fill areas), as well as "Surface Drainage" recommendations, including minimum required surface drainage gradients away from foundations for positive drainage.

(over)

Review of Geotechnical Investigation, Project: 14-125-SC

APN: 067-041-14 Page 2 of 3

After building permit issuance the soils engineer must remain involved with the project during construction. Please review the Notice to Permits Holders (attached). Please note: Electronic copies of all forms required to be completed by the Geotechnical Engineer may be found on our website: www.sccoplanning.com, under "Environmental", "Geology & Soils", "Assistance & Forms".

Our acceptance of the report is limited to its technical content. Other project issues such as zoning, fire safety, septic or sewer approval, etc. may require resolution by other agencies.

Please note that this determination may be appealed within 14 calendar days of the date of service. Additional information regarding the appeals process may be found online at: http://www.sccoplanning.com/html/devrev/plnappeal_bldg.htm

residente procesore de la companya del companya de la companya del companya de la companya de la

ere egypte general til er er general ett generallegig gåre gåget beda for ellegitte, at er eller ett bler Ellegig blandet my Maltini i latt Millionimmenten målere i eller ekking omfatte blandet blandet blandet måler

entago e como e capo estado entro e o carto escerción de transferencia de la como entre entre entre el como en

Please call the undersigned at (831) 454-5121 if we can be of any further assistance.

Sincerely,

Carolyn Burke Civil Engineer

Cc:

Jessica Duktig, Environmental Planning
Annette Olson, Project Planner
CMAG Engineering, Inc.



City of Scotts Valley

Public Works Department One Civic Center Drive Scotts Valley, California 95066 Phone 831 438-5854 Facsimile 831 439-9748

August 21st, 2014

Rick Hochler 325 Canham Rd Scotts Valley, CA 95066

Re: APN 067-041-14

This is a "Will Serve Letter" for the above stated property APN 067-041-14, address 504 Lockwood Lane in the County of Santa Cruz. With regard to the sewer hook-up(s) for this property being in the County of Santa Cruz, your property is authorized for connection to Scotts Valley City sewer.

Property owner must submit all improvement plans and any other applications and fees that the City of Scotts Valley requires prior to having the intended property(s) connected to sewer.

Sincerely,

Kimarie Jones Engineering Tech



SANIORENZO VALLEY WATER DISTRICT

13060 Highway 9 • Boulder Creek, CA 95006-9119 Office (831) 338-2153 • Fax (831) 338-7986 Website: www.slvwd.com

October 13, 2014

Mr. Hochler 325 Canham Rd Scotts Valley, CA 95066

Subject: Request for Meter Review

APN: 67-041-14

Dear Mr. Hochler:

The District has on file your request for meter service on the above parcel.

Your request has been:

- Approved. Please come to the District to pay your connection charges.
- Approved. Please bring your plumbing plans and sprinkler system flow requirement to the District to determine the cost of the water connection.
- Conditions. Please contact the District office to discuss and make necessary arrangements.
- Denied. Please contact the District office to discuss this meter request if you have any questions.
- Approval can be withdrawn at any time.
- Water service is never guaranteed until service has been approved, sized and all fees paid.
- Any addition of plumbing fixtures and/or residential fire sprinkler system to the existing water service requires an additional review by District staff and approval for compliance with meter sizing District Ordinances.

If you have any questions regarding this matter, please contact our office.

Sincerely

Stephanie Hill Finance Manager

DOMESTIC OF JOINT DOMESTIC/RESIDENTIAL F	· · · · · · · · · · · · · · · · · · ·
Request Date $\frac{9/30/14}{\text{APN}} = 67 - 041 - 14$	(504 LOCKEWOOD LN.)
Why CUSTOMER TO DO MINOR LAND T	AVISION - 30RIGHNAL
Existing water sources: None Well Spring Meter	Account # 110 225 011
Owner's Name PICK Hoch Len	Existing Units/
MAIL TO: RICK HOCHLER	Units to be built Z NEW
375 CANHAM RD.	
SCOTTS VALLEY, CA 9	5066 Phone 439 - 8990
ENGINEERING REVIEW: Date 10/1/14 R	c) 8/8-09/9 Leimbursement Agreement for Parcel
- EXISTING 5/8" METER - 6" MAIN F - CUSTOMER CONSIDERING SPLITTING I INTO 3 PARCECS, TEARING FOUND E HUSE AND BULLDING 3 NEW HOUSES - PARCEC IS OUT OF S. V. CITY LIMITS	Tanting proced In/Out District 1/
- ± 120 PSI @ PANCEL	Engineering Department
FIELD OPERATION REVIEW: Date 10 107 2014	
10 opensous Proscous or For -	Servicio DCRP
	Operations Superintendent
WATERSHED ANALYST REVIEW: Date	_
MANACED DEVIEW D. (2)	Watershed Analyst
MANAGER REVIEW: Date 10/07 2014 Appro	
OV FOR SOME SPUT MORE SI	SINN -
	District Manager
SECOND MANAGER REVIEW: Date	Approved Agreement
	- Abrosod Agreement
, ,	
	·
	District Manager

X

Drainage Review

Routing No: 3 Review Date: 04/17/2015 ANNETTE OLSON (AOLSON): Complete

Third Routing-- Complete

Application with preliminary drainage study dated January 8, 2015 and plans dated 3/17/15 by Robert L. DeWitt and Associates has been received. Please address the following prior to final map recordation:

Conditions of Approval/Compliance Comments:

- 1) Either provide an evaluation of the drainage facilities within the City of Scotts Valley maintained Lockwood Lane or provide a letter from the City accepting the development without evaluation.
- 2) Sheet P3 shows a new 12 inch culvert proposed at the rebuilt driveway entrance. Provide analysis demonstrating that this is an appropriately sized culvert based on the upstream watershed area and City of Scotts Valley standards.
- 3) Provide final grading, drainage, surfacing and mitigation information for the proposed improvements that will be built with the land division (common driveway, culvert, etc.). Per Part 3, Section C.1.c of the CDC and based on different scenarios presented on sheet P4, this project is considered a large redevelopment project. As such, the project is required to provide mitigations for pollutant and hydrologic impacts due to development. These mitigations shall include Low Impact Development (LID) measures that emphasize minimization of impacts as a first priority consistent with the general plan for minimizing impervious area impacts. The project analysis must demonstrate compliance with sections C.2 and C.3.a, b and c of the CDC.
- a. Section C.2 Provide a narrative describing which pollutant generating activities and sources are proposed on the project site and how their impacts will be mitigated. Show these on a site map/plan. The map/plan should include or reference recommendations from the California Stormwater Quality Association (CASQA) BMP Handbook for New Development and Redevelopment or equivalent.
- b. Section C.3.a: Based on the preliminary drainage study the project site is adequate for retaining runoff from both the 2 and 10 year storms. The project should be conditioned to retain and infiltrate runoff from the 2 and 10 year storms so that runoff leaving the site will not exceed predevelopment rates. The preliminary study further suggests that the driveway areas will be utilized for stormwater mitigation. Please note that Section I of the CDC allows a maximum design saturated permeability of 200 mm/hr (8 inches/hr) to be used when sizing retention facilities. The preliminary study used rates higher than allowed. If retention will also be used to mitigate for the 10 year storm as it appears feasible, the release rate should be updated to match the expected

Print Date: 06/12/2015

Discretionary Application Comments 141228 APN 067-041-14

Drainage Review

Routing No: 3 Review Date: 04/17/2015 ANNETTE OLSON (AOLSON): Complete

infiltration rate when determining the storage volume to provide.

- Section C.3.a: Based on the assessment described in Comment 1 above, if downstream inadequacies are identified the project may be required to include downstream improvements or to provide on-site mitigations beyond the County minimum standards.
- Section C.3.b: Based on the preliminary drainage study this project will retain and infiltrate the 2 year storm in order to minimize stormwater pollutants of concern.
- Section C.3.c: Please include a narrative introduction to the concept of stormwater management on the site in the Stormwater Management Report that addresses each of the Site Design and Runoff Reduction measures called for in this section.
- Provide grading, drainage, surfacing, and mitigation information for the proposed individual lots for impact and mitigation. While the design for the mitigation facilities on the individual lots does not need to be completed prior to final map approval, the proposed mitigation strategy(ies) needs to be identified and demonstrated to be feasible.
- Provide final stormwater management plans that are adequately detailed for construction and that demonstrate compliance with the CDC. Design should include provisions for safe overflow, flow control sizing, capacity analysis, treatment, pollution prevention, contaminate screening, drain time and vector control assessment. Plans should clearly describe how runoff from all project areas that are to be constructed as part of the land division (roof, hardscapes, landscapes, rear yards, etc.) will be routed and should include details such as: surface and invert elevations, slopes, surface details, flow control structures, clean-out facilities at pipe connections/grade/direction changes, materials, installation requirements, compaction/decompaction requirements, etc.
- Please confirm with the water department that the water service lines locations relative to the stormwater management is acceptable and in conformance with state and local standards.
- 7) Storm drainage easements should be provided for all common drainage facilities. The final map should clearly depict these easement areas, specifically state that these easements are to be privately maintained, and identify which party(ies) are responsible for maintenance. Easement widths shall be adequate for maintenance, repair and replacement without impact to structures or other permanent facilities.
- Provide landscape and architectural plans with surfacing, grading, and drainage information for review for consistency with the civil plans.
- Include signage at each proposed storm drain inlet stating "No Dumping Drains to Bay" or

Print Date: 06/12/2015

Drainage Review

Routing No: 3 Review Date: 04/17/2015 ANNETTE OLSON (AOLSON): Complete

equivalent. This signage shall be privately maintained.

- 10) Recorded maintenance agreement(s) for stormwater management and mitigation facilities is required. Include detailed management activities, maintenance requirements, schedule, signs of system failure, and responsible party both in the recorded maintenance agreement as well as the final plans. The maintenance agreement should also include the standard language provided in Fig. SWM-25B of the CDC.
- 11) Provide a letter from the geotechnical engineer reviewing and approving the final stormwater management design. If the final plan includes infiltrative stormwater management facilities the geotechnical letter should confirm that the site soils encountered are consistent with the design infiltration rate used in the design.

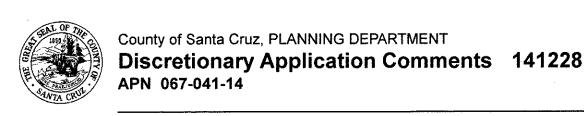
Second Routing

Application with preliminary drainage study dated January 8, 2015 and plans dated 3/17/15 by Robert L. DeWitt and Associates has been received. Please address the following prior to final map recordation:

Conditions of Approval/Compliance Comments:

- 1) Either provide an evaluation of the drainage facilities within the City of Scotts Valley maintained Lockwood Lane or provide a letter from the City accepting the development without evaluation.
- 2) Sheet P3 shows a new 12 inch culvert proposed at the rebuilt driveway entrance. Provide analysis demonstrating that this is an appropriately sized culvert based on the upstream watershed area and City of Scotts Valley standards.
- 3) Provide final grading, drainage, surfacing and mitigation information for the proposed improvements that will be built with the land division (common driveway, culvert, etc.). Per Part 3, Section C.1.c of the CDC and based on different scenarios presented on sheet P4, this project is considered a large redevelopment project. As such, the project is required to provide mitigations for pollutant and hydrologic impacts due to development. These mitigations shall include Low Impact Development (LID) measures that emphasize minimization of impacts as a first priority consistent with the general plan for minimizing impervious area impacts. The project analysis must demonstrate compliance with sections C.2 and C.3.a, b and c of the CDC.

Print Date: 06/12/2015



Drainage Review

Routing No: 3 Review Date: 04/17/2015 ANNETTE OLSON (AOLSON): Complete

- a. Section C.2 Provide a narrative describing which pollutant generating activities and sources are proposed on the project site and how their impacts will be mitigated. Show these on a site map/plan. The map/plan should include or reference recommendations from the California Stormwater Quality Association (CASQA) BMP Handbook for New Development and Redevelopment or equivalent.
- b. Section C.3.a: Based on the preliminary drainage study the project site is adequate for retaining runoff from both the 2 and 10 year storms. The project should be conditioned to retain and infiltrate runoff from the 2 and 10 year storms so that runoff leaving the site will not exceed predevelopment rates. The preliminary study further suggests that the driveway areas will be utilized for stormwater mitigation. Please note that Section I of the CDC allows a maximum design saturated permeability of 200 mm/hr (8 inches/hr) to be used when sizing retention facilities. The preliminary study used rates higher than allowed. If retention will also be used to mitigate for the 10 year storm as it appears feasible, the release rate should be updated to match the expected infiltration rate when determining the storage volume to provide.
- c. Section C.3.a: Based on the assessment described in Comment 1 above, if downstream inadequacies are identified the project may be required to include downstream improvements or to provide on-site mitigations beyond the County minimum standards.
- d. Section C.3.b: Based on the preliminary drainage study this project will retain and infiltrate the 2 year storm in order to minimize stormwater pollutants of concern.
- e. Section C.3.c: Please include a narrative introduction to the concept of stormwater management on the site in the Stormwater Management Report that addresses each of the Site Design and Runoff Reduction measures called for in this section.
- 4) Provide grading, drainage, surfacing, and mitigation information for the proposed individual lots for impact and mitigation. While the design for the mitigation facilities on the individual lots does not need to be completed prior to final map approval, the proposed mitigation strategy(ies) needs to be identified and demonstrated to be feasible.
- 5) Provide final stormwater management plans that are adequately detailed for construction and that demonstrate compliance with the CDC. Design should include provisions for safe overflow, flow control sizing, capacity analysis, treatment, pollution prevention, contaminate screening, drain time and vector control assessment. Plans should clearly describe how runoff from all project areas that are to be constructed as part of the land division (roof, hardscapes, landscapes, rear yards, etc.) will be routed and should include details such as: surface and invert elevations, slopes, surface details, flow control structures, clean-out facilities at pipe connections/grade/direction changes, materials, installation requirements, compaction/decompaction requirements, etc.

Print Date: 06/12/2015



Discretionary Application Comments 141228 APN 067-041-14

Drainage Review

Routing No: 3 Review Date: 04/17/2015 ANNETTE OLSON (AOLSON): Complete

- Please confirm with the water department that the water service lines locations relative to the stormwater management is acceptable and in conformance with state and local standards.
- Storm drainage easements should be provided for all common drainage facilities. The final 7) map should clearly depict these easement areas, specifically state that these easements are to be privately maintained, and identify which party(ies) are responsible for maintenance. Easement widths shall be adequate for maintenance, repair and replacement without impact to structures or other permanent facilities.
- Provide landscape and architectural plans with surfacing, grading, and drainage information for review for consistency with the civil plans.
- Include signage at each proposed storm drain inlet stating "No Dumping Drains to Bay" or equivalent. This signage shall be privately maintained.
- 10) Recorded maintenance agreement(s) for stormwater management and mitigation facilities is required. Include detailed management activities, maintenance requirements, schedule, signs of system failure, and responsible party both in the recorded maintenance agreement as well as the final plans. The maintenance agreement should also include the standard language provided in Fig. SWM-25B of the CDC.
- 11) Provide a letter from the geotechnical engineer reviewing and approving the final stormwater management design. If the final plan includes infiltrative stormwater management facilities the geotechnical letter should confirm that the site soils encountered are consistent with the design infiltration rate used in the design.

Environmental Planning

Routing No: 3 Review Date: 06/01/2015 ANNETTE OLSON (AOLSON): Complete

Print Date: 06/12/2015



Discretionary Application Comments 141228 APN 067-041-14

Fire Review

Routing No: 1 Review Date: 11/14/2014

ANNETTE OLSON (AOLSON): Complete

Annette,

The Scotts Valley Fire Protection District has the following comments regarding the proposal to divide a parcel into three parcels and construct a new right-of-way at 504 Lockewood Lane:

COMPLETENESS ITEMS:

No further information is needed from the applicant, at this time, in order to determine whether the project is feasible and what the impacts may be if it is constructed.

COMPLIANCE ISSUES:

This proposed project shall comply with the California Fire Code as amended by the Scotts Valley Fire Protection District including Fire Apparatus Access Roads and Fire Protection Water Supplies.

PERMIT CONDITIONS/ADDITIONAL INFORMATION:

Building permit plans shall comply with the California Fire Code as amended by the Scotts Valley Fire Protection District.

Please contact me directly with any questions or concerns regarding these project comments.

Daniel J. Grebil, Fire Chief Scotts Valley Fire Protection District dgrebil@scottsvalleyfire.com Office - 831.438.0211 Cell - 831.212.8309 Fax - 831.438.0383 www.scottsvalleyfire.com

Project Review

Routing No: 3 Review Date: 04/17/2015 ANNETTE OLSON (AOLSON): Complete

See letter.

Road Engineering Review

Print Date: 06/12/2015



Discretionary Application Comments 141228 APN 067-041-14

Road Engineering Review

Routing No: 1 Review Date: 11/10/2014

RODOLFO RIVAS (RRIVAS): Not Required

Lockewood Lane at the location of the project is within the City of Scotts Valley's Jurisdiction. Therefore, the City of Scotts Valley will determine the road and roadside improvements for this project.

Surveyor Review

Routing No: 1 Review Date: 11/06/2014 GREG MARTIN (GMARTIN): No Response

No comments.

Print Date: 06/12/2015

Page: 7 ATACHMENT

nette Olson

From:

Kimarie Jones [kjones@scottsvalley.org]

Sent:

Thursday, April 16, 2015 4:57 PM

To:

Annette Olson

Subject:

FW: Minor Land Division

FYI, no further comments we are good to go with this subdivision.

Thanks!

Kimarie Jones, Engineering Tech City of Scotts Valley Public Works Department 701 Lundy Lane, Scotts Valley CA 95066

P: 831 438-5854 F: 831 439-9748

----Original Message----

From: Joel Ricca [mailto:joel@bowmanandwilliams.com]

Sent: Thursday, April 16, 2015 4:19 PM

To: Kimarie Jones

Subject: RE: Minor Land Division

Yes

Our review comments did not require a response.

Sent from my Verizon Wireless 4G LTE smartphone

----- Original message -----

From: Kimarie Jones <<u>kjones@scottsvalley.org</u>>

Date: 04/16/2015 1:31 PM (GMT-08:00)

To: Joel Ricca < joel@bowmanandwilliams.com>

Cc: Annette.Olson@santacruzcounty.us
Subject: FW: Minor Land Division

Can you confirm that the Minor Land Division on Lockwood is complete and Annette from the SC County can proceed.

Thanks! Kimarie

Kimarie Jones, Engineering Tech City of Scotts Valley Public Works Department 701 Lundy Lane, Scotts Valley CA 95066

P: 831 438-5854 F: 831 439-9748

From: Annette Olson [mailto:Annette.Olson@santacruzcounty.us]

Sent: Thursday, April 16, 2015 12:11 PM

To: Kimarie Jones

ect: Minor Land Division

i Kimarie.

m finishing up my review of Rick Hochler's land division on Lockewood (APN 067-041-14, Application 141228) and am wondering if you are satisfied with the information you were provided.

Please let me know as soon as possible as my letter is due tomorrow.

Thanks very much,

Annette

Annette Olson Development Review Planner County of Santa Cruz (831) 454-3134 Work Schedule: 8:30 - 1:30: M, W, Th, F

Lead Agency estimates value at period end.

Lead Agency estimates value at period end.

Sum of Row 21 + 22

MBUAPCD CONSISTENCY DETERMINATION PROCEDURE Ver. 4.0

2010

56,863

56,927

2015

56,927

320

2020

57,247

320

2025

57,567

57,887

Data entered by user

Consistency Finding NO YES

6	Jurisdiction:	Coun	ty of Santa Cruz Unincorp		Lead Agency selects from pull down
7	Project Name:	Rodriguez	Jose Residential Development		Lead Agency enters
8	Base Year for this determination:	2010	Project Buildout/ Occupancy Year	2017	Lead Agency enters
9			Proposed Project Occupied DU	20	Total buildout of Project. Sum of all years, row 26.

JURISDICTION DATA FROM AQMP & DOF (no data entry)

14	DOF Population
15	AMBAG DU Forecast for Jurisdiction
16	AMBAG Pop Forecast for Jurisdiction
17	AMBAG Forecast Population/ DU
	E.D. M. D. W. D. C.

"	Alvidad i diecast i obdiationi do
18	Estimated Built DUs

Base Year		Period end	ding Januar	y 1st of:						
2010	2015	2020	2025	2030	2035	Notes				
137,873	From Calif. Dept of Finance. Est. for Jan 1 released in June of each year.									
57,498	58,075	59,321	59,808	60,257	60,802	DUs from AMBAG Travel Model, current version				
135,173	134,797	137,681	138,822	139,690	141,162	Latest AMBAG Pop. & Employment forecasts.				
2.35	2.32	2.32	2.32	2.32	2.32	Row 16/ row 15				
57,244	Entry for	2010 is the D	OF 1/2010	Housing Un	it Estimate.	Lead agency may overwrite if they have better data.				

JURISDICTION DUS W/O PROJECT

21	Housing Stock (Built DUs, Total)
22	Approved but not Built DUs
02	Total Built & Approved Dillo

23	Total Built & Approved DOS	
PRO	POSED NEW PROJECT DUs	
26	Proposed New Project DUs	

TOTAL, New Project + Built & Approved DUs

	111111111111111111111111111111111111111		1.1		
2015	2020	2025	2030	2035	
 20					Data entry by Lead Agency.
57 267	57 567	57 997	59 207	59 527	Sum of Pow 22 ± 26

2035

58,207

320

2030

57,887

320

58,207

NEW PROJECT CONSISTENCY DETERMINATION

29	Over (Under) AQMP DUs
30	Is the project consistent in this Period?

	(808)	(1,754)	(1,921)	(2,050)	(2,275)	Row 27 - Row 15
YE	v	YES	YES	YES .	YES	If Row 30 is (negative) = YES, if positive = NO.

OPTIONS IF INCONSISTENT (Choose one):

	Year:	2015	2020	2025	2030	2035	
38	A. Mitigate the impact by reducing project DUs by this amount:						Preferred option. Reduce project DUs by this amount for the inconsistent period, or redistribute project DUs between periods until all are consistent.
	B. Obtain commitment from AMBAG to add this number of dwelling units to it's next forecast for this Jurisdiction.						Commitmet from AMBAG would enable consistency with the next AQMP.
40	C. OR For EIRs, declare overriding benefit, AND request AMBAG	to add the	above num	ber of perso	ns and dwe	elling units	to it's next forecast for this Jurisdiction.