# **Initial Study and Proposed Negative Declaration**

# Simpco Minor Subdivision Lake Earl Drive

July 2019



Prepared By
Del Norte County
Community Development Department
Planning Division
981 H Street, Suite 110
Crescent City, California 95531

www.co.del-norte.ca.us

# **Project Information Summary**

1. Project Title: Simpco Minor Subdivision, Lake Earl Drive

MS1904

2. Lead Agency Name and Address: Del Norte County

Community Development Department, Planning Division

981 H Street, Suite 110 Crescent City, CA 95531

3. Contact Person and Phone Number:

Taylor Carsley (707) 464-7254

4. Project Location and APN:

3905 Lake Earl Drive, Crescent City, CA

110-201-033

5. Project Sponsor's Name and Address: Dave Powell

P.O. Box 263

Crescent City, CA 95567

6. County General Plan Land Use:

Rural Residential, 1 acre minimum lot size

7. County Zoning:

Residential and Agriculture, 1 acre minimum lot size (R1A)

8. Description of Project:

The project is a minor subdivision of a 2.8-acre property at the intersection of Lake Earl Drive and Audree Lane. The property is currently developed with a single family residence. The subdivision would create two lots; one developed with a residence, and one undeveloped. Both proposed properties are zoned Residential and Agriculture, 1 acre minimum lot size. No development is proposed with this project, although one or two residences (in the form of an accessory dwelling unit) could be developed in the future as a result of the subdivision.

9. Surrounding Land Uses and Settings: Rural residential, and public lands

**10.** Required Approvals: Del Norte County Planning Commission

11. Other Approval (Public Agencies): Del Norte County Community Development Department

12. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, has consultation begun?

Native American tribes, traditionally and culturally affiliated with the project area have been notified of the project application completion and the beginning of the AB 52 consultation period pursuant to PRC §21080.3.1.

# **Environmental Factors Potentially Affected**

			low would be potentially affected by as indicated by the checklist on the fo		
П	Aesthetics		Agriculture and Forestry Resources		Air Quality
	Biological Resources		Cultural Resources		Energy
	Geology/Soils		Greenhouse Gas Emissions		Hazards & Hazardous Materials
	Hydrology / Water Quality		Land Use / Planning		Mineral Resources
	Noise		Population / Housing		Public Services
	Recreation		Transportation		Tribal Cultural Resources
	Utilities / Service Systems		Wildfire		Mandatory Findings of Significance
On	the basis of this initial evaluati	on:	Determination		
×	I find that the proposed projection		OULD NOT have a significant effect on t	he er	nvironment, and a NEGATIVE
	significant effect in this case	beca	project could have a significant effect of use revisions in the project have been of VE DECLARATION will be prepared.		
	IMPACT REPORT is required.		AY have a significant effect on the env		
	mitigated" impact on the end document pursuant to applic earlier analysis as described analyze only the effects that	vironi able on at rema		en ade ssed APAC	equately analyzed in an earlier by mitigation measures based on the T REPORT is required, but it must
	significant effects (a) have be applicable standards, and (b)	een a have	project could have a significant effect on nalyzed adequately in an earlier EIR or been avoided or mitigated pursuant to or mitigation measures that are impo	NEGA o tha	ATIVE DECLARATION pursuant to t earlier EIR or NEGATIVE
Tay	ylor Carsley, Planner		<b>7</b> /Date	/23	/19

Del Norte County Negative Declaration—Simpco Minor Subdivision, Lake Earl Drive — MS1904

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# 1. Aesthetics

Except as provided in Public Resources Code Section 21099, would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact	
a) Have a substantial adverse effect on a scenic vista?					
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				×	770000000000000000000000000000000000000
c) In non-urbanized areas, substantially degrade the existing visual character or public views of the site and its surroundings? (Public views are those that are experienced from publically accessible vantage points). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				×	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?					***************************************

# **Discussion of Impacts**

- a. This project would have no foreseeable impact on scenic vistas.
- b. This project would have no foreseeable impact on scenic resources.
- c. The project would not degrade the existing visual character or public views of the site and its surroundings.
- d. The project does not propose any development which would create a new source of substantial light or glare which would adversely affect views.

# 2. Agriculture and Forest Resources

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less T Signifi	han cant Impact	No Impact	
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?					×	
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?					$\boxtimes$	
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	0				×	
d) Result in the loss of forest land or conversion of forest land to non-forest use?			0			
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?					×	

- a. No farmland exists on-site.
- b. No agricultural zoning exists on-site or adjacent to the property
- c. No Timber Production zones exist on-site or adjacent to the property
- d. The project would not result in the loss of forestland. No forestland exists on-site.
- e. The project does not involve any other changes in the existing environment that could adversely affect farmland or timberlands.

# 3. Air Quality

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?				×
b) 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?			Ġ	
c) Expose sensitive receptors to substantial pollutant concentrations?		С		×
d) Result in other emissions (such as those leading to odors or dust) adversely affecting a substantial number of people?				Ø

# **Discussion of Impacts**

- a. This project would have no foreseeable impacts on the implementation of an air quality plan.
- b. This project would have no foreseeable impacts on increasing criteria pollutants in the region.
- c. This project would not expose receptors to pollutant concentrations.
- d. This project would have no foreseeable impacts in increasing any emissions.

# 4. Biological Resources

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	а			
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	0			

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	П								
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?						de consciona de la consciona d		×	
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?								×	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional or state habitat conservation plan?									
Discussion of Impacts									
mapped in the National Wetlands Inventory. The area is zoned and designated for residential and agricultural uses which have been previously analyzed under CEQA in the General Plan as suitable on this project site.  5. Cultural Resources									
5. Cultural Resources			Loss Than				POSITION OF THE PROPERTY OF TH	·	
5. Cultural Resources  Would the project:	Potential Significar	lly nt Impact	Less Thar Significar with Miti	nt Impact igation	Less T		mpact	No Impact	
			Significar with Miti	nt Impact igation	1		mpact	No Impact	
Would the project:  a) Cause a substantial adverse change in the significance	Significar		Significar with Miti Incorpora	nt Impact igation	Signifi		mpact		
Would the project:  a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?  b) Cause a substantial adverse change in the significance	Significar		Significar with Miti Incorpora	nt Impact igation	Signifi		mpact		
<ul> <li>Would the project:</li> <li>a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?</li> <li>b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?</li> <li>c) Disturb any human remains, including those interred</li> </ul>	Significar		Significar with Miti Incorpora	nt Impact igation	Signifi		mpact		
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5? b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5? c) Disturb any human remains, including those interred outside of dedicated cemeteries?	Significar	tice was p to cultura	Significar with Miti Incorpora	nt Impact igation ated	signifi	nally a Na	cultura	⊠ ⊠ Illy affiliatemerican	d with
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5? b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5? c) Disturb any human remains, including those interred outside of dedicated cemeteries?  Discussion of Impacts  a-c. No cultural resources are known to exist or the project area and no comment was given with representative is a voting member of the Count CEQA recommendations. No potential impacts	Significar	tice was p to cultura	significar with Miti Incorpora	nt Impact igation ated	radition on ally, which r	nally a Na eviev	cultura tive Ar ws proj	ally affiliate merican jects and n	d with

resources, during project construction or operation?			
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	П		Ø

- a. The project would have no foreseeable impacts on increasing wasteful, inefficient, or unnecessary energy use since no development is proposed as part of this application.
- b. This project does not conflict with nor obstruct a state or local plan for renewable energy or energy efficiency.

# 7. Geology and Soils

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				⊠
ii) Strong seismic ground shaking?				×
iii) Seismic-related ground failure, including liquefaction?				×
iv) Landslides?				×
b) Result in substantial soil erosion or the loss of topsoil?				
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				×
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?		0		
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?		0		×
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				Ø

#### **Discussion of Impacts**

a-f. No impacts related to geology and/or soils as a result of this project are expected to occur. This project subdivides property already developed. An on-site sewage disposal analysis was completed by a California Licensed Civil Engineer to ensure each proposed property has adequate soil for a septic system with reserve drainfield. Two test pits were dug during wet weather conditions, soils were analyzed, and a percolation test was performed. The report concluded that sufficient area existed on the proposed parcel to site a conventional leachfield system and reserve area. Otherwise the parcel is flat with no known geological issues which could be impacted by potential future development related to this subdivision.

# 8. Greenhouse Gas Emissions

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No li	mpact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				×	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				Ø	

# **Discussion of Impacts**

- a. The project would not create significant impacts to the environment from GHG emissions. No GHG emissions would be created as a result of this subdivision.
- b. The proposed project would not conflict with an applicable plan, policy, or regulation adopted for the purpose or reducing GHG emissions.

# 9. Hazards and Hazardous Materials

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Imp	pact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				⊠	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?		<u> </u>			**************************************
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				$\boxtimes$	
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?					
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?					eminen Esintralistas sagus 4
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				×	Make and Market gave gave gave gave gave gave gave gave
g) Expose people or structures, either directly or indirectly to a significant risk of loss, injury or death involving wildland fires?		О		×	

# **Discussion of Impacts**

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a-g. The project would not create impacts related to hazards or hazardous materials. This subdivision would not facilitate the transport of hazardous materials, the release of hazardous materials, nor would it create additional exposure to wildland fires.

# 10. Hydrology and Water Quality

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			0	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?				×
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) result in substantial erosion or siltation on-or off-site?				×
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;				
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional source of polluted runoff; or	П			×
iv) impede or redirect flood flows?				$\boxtimes$
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				×
e) Conflict with or obstruct implementation of a water quality control plan or sustainable ground water management plan?			П	×

#### **Discussion of Impacts**

a-e. This project would have no impact on hydrology or water quality. The subdivision does not affect water quality in any way, nor does it require substantial improvements that alters drainage systems, involves grading, or approve additional development that can increase runoff potential. The potential in the future to develop an additional residence as a result of this subdivision may increase impermeable surface area on the site and would require an Erosion and Runoff Control Plan to be reviewed and approved by the County Engineering Division at the time of future development. This would be considered a less than significant impact to the amount of surface runoff generated by potential future development.

# 11. Land Use and Planning

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
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) Physically divide an established community?				$\boxtimes$
) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation of an agency dopted for the purpose of avoiding or mitigating an environmental effect?	0	0		×
Discussion of Impacts				
a-b. This project does not divide an established com County.	munity nor does	s it cause a conflict	t with any land	use plan in
12. Mineral Resources				
Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				Ø
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?		0		×
Discussion of Impacts				
a-b. No mineral resources are known to exist on site.				
13. Noise				
Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impac
a) Generation of a substantial temporary or permanent increase				⊠
in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	***************************************			
standards established in the local general plan or noise				

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a-b. This project would have no impacts through noise generation itself. The subdivision would create two parcels that are designated and zoned for residential use through the General Plan and County Zoning, respectively.

# 14. Population and Housing

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Induce substantial unplanned 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)?			0	×
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				×

## **Discussion of Impacts**

- a. The project would not create the ability to allow for substantial population growth in the area. The current parcel is developed with a single family residence. The subdivision would allow for the potential to develop an additional single-family residence and potentially an Accessory Dwelling Unit located on the same parcel.
- b. The project would not displace any number of existing people or housing.

# 15. Public Services

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	J.			
Fire protection?				×
Police protection?				
Schools?				×
Parks?				
Other public facilities?				×

# **Discussion of Impacts**

a. The project would not result in substantial adverse impacts associated with the need for new or altered governmental facilities and/or public services. The project would not substantially increase the density of development possible on the property, and thus would not directly nor indirectly place additional strain on existing public services.

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Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impa	ıct
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				×	
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				×	

a-b. The project does not impact existing recreational areas nor does it increase the need for additional recreational facilities. The subdivision would increase the future development potential by one additional single family residence, with the further potential for an Accessory Dwelling Unit on the new parcel.

# 17. Transportation

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?				×
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision(b)?		П	þ	Ø
c) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				×
d) Result in inadequate emergency access?				

# **Discussion of Impacts**

a-d. The project does not impact transportation in any way. The subdivision does not substantially increase the development potential of the property which could cause transportation impacts.

# 18. Tribal Cultural Resources

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Imp	act			
a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:								
i) Listed or eligible for listing in the California Register of		×						

Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or		
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.		⊠

The project would have no foreseeable impacts on tribal cultural resources. A member of the Environmental Review Committee is a Native American representative and has not issued notice of any concern of resources on-site. Further, an AB 52 tribal consultation has been sent to local tribes associated with the project area and no requests for consultations have been received by the Lead Agency.

# 19. Utilities and Service Systems

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?				×
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				×
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the providers existing commitments?		Ġ		×
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				×
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?			П	⊠

## **Discussion of Impacts**

a-e. The project would not have any impact on utilities and service systems. The proposed parcel would be served by onsite utilities including water and sewage disposal. An engineered wastewater treatment system has been designed in accordance with County regulations and the Basin Plan.

# 20. Wildfire

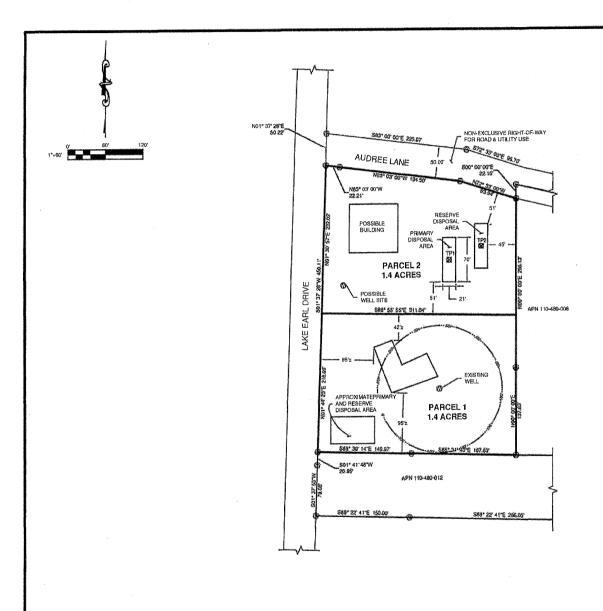
Would the project:	Potentially	Less Than	Less Than	No Impact	
' '	Significant	Significant Impact	Significant	No Impact	ı

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a-d. The project site is located in a State Responsibility Area for fire management and in a Moderate Fire Hazard Area. The subdivision is not substantially growth-inducing and would thus have no impact on wildfire hazards and introduction of additional development in the Wildland Urban Interface. The proposed parcel would be adjacent to Lake Earl Drive, a main arterial roadway which can provide for rapid response by emergency personnel.

# 21. Mandatory Findings of Significance

Would the project:	Potentially Significant Impact	Less Than Significant Impact with Mitigation Incorporated	Less Than Significant Impact	No Impa	act
a) Does the project have the potential to substantially 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, substantially 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?				×	
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				⊠	
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?				Ø	



**TENTATIVE MAP** 

OF

3905 LAKE EARL DRIVE

FOR

SIMPCO LANDS

IN

SECTION 13, TOWNSHIP 17 NORTH, RANGE 1 WEST, HUMBOLDT MERIDIAN

COUNTY OF DEL NORTE - STATE OF CALIFORNIA APRIL 2019

#### GENERAL NOTES

- EXISTING PROPERTY LINES BASED ON PARCEL MAP PERFORMED BY SCHLACK & ASSOCIATES LAND SURVEYING BOOK 9 OF PARCEL MAPS PAGE 51 & 52.
- 2 PROPOSED PROPERTY LINES AND PARCEL AREAS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY SURVEYOR LICENSED IN THE STATE OF CALIFORNIA.
- 3. TEST HOLES, WELLS, AND EXISTING FEATURES ARE ALL APPROXIMATE LOCATIONS.

#### **LEGEND**

PROPERTY LINE
EASEMENT
TEST PIT #

EXISTING BUILDING
WELL

APN: 106-021-059-000 AREA: 3.1 ACRES ZONING: R1A LAND USE: RR 1 DWELLING UNIT PER ACRE

PREPARED BY

# STOVER ENGINEERING Civil Engineers and Consultants

Civil Engineers and Consultan PO 80X 783 - 711 H STREET CRESCENT CITY, CA 95531 707-465-6742 JN 4598 SHEET 1 OF 1

Civil Engineers and Consultants

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DAVE POWELL SIMPCO LANDS PO BOX 263 CRESCENT CITY CA 95531

Job Number: 4598

Date: 31 May 2019

RE: On-site Wastewater Treatment System Evaluation – APN 106-021-059, 3905 Lake Earl Dr., Crescent City, California

Dear Mr. Powell,

At your request, Stover Engineering performed an on-site wastewater treatment system (OWTS) evaluation for the subject property. It is my understanding that the project consists of subdividing the parcel into two separate parcels. A residence is located on the property as indicated on the attached site plan. The proposed parcel is to be served by a new well and OWTS. Based upon our investigation, it is my opinion that a conventional OWTS, plus a reserve area constructed in accordance with the Del Norte County Standards, can be situated on the property. This report conforms to the Del Norte County On-Site Sewage Disposal Ordinance.

We performed field observations on 19 April 2019 during wet weather season for the purpose of determining suitability for on-site sewage disposal. Brian McNally of the Del Norte County Environmental Health Division was present during the field observations. The designated sites indicated on the plot plan are relatively level. Two test pits were excavated to a depth of 8 or more feet below ground surface (bgs) with a backhoe, as indicated on the attached site plan. The test pit (TP) locations shown on the attached site plan are designated as TP1 and TP2. Soils observed in TP-1 comprised of sandy loam topsoil to a depth of 2 feet bgs and tan sandy clay to a depth of 8 feet bgs. Soils observed in TP-2 were similar in nature to the soils observed in TP-1. No groundwater was observed in any of the test pits.

Percolation testing was performed by Stover Engineering on 25 April 2019 during wet weather season. The percolation testing was performed in the vicinity of TP1 and TP2. The percolation rate at these locations were observed to be 24 minutes per inch and 60 minutes per inch respectively. Percolation rates are consistent with Zone 2 and Zone 3 of the Soil Percolation Suitability Chart.

The minimum required separation distance to groundwater from the bottom of leachfield trenches is five feet for soils with percolation rates slower than 5 minutes per inch in accordance with the Regional Water Quality Control Board Basin Plan. Based on the absence of groundwater and our calculations, there is sufficient area to site a conventional leachfield system and a reserve area on the proposed parcel, as shown in the attached site plan. Copies of the site evaluation summary, site plan, soils exploration test logs, percolation test log, and design calculations are attached to this letter.

Please be informed that grading activities which disturb the reserve or primary areas indicated on the attached site plan will alter the suitability of the existing soils and subsequently invalidate the findings of our report. In addition, the placement of both on-site and off-site future improvements, including but not limited to wells and water lines, must adhere to the setbacks indicated on the Site Evaluation Summary sheet (page 3).

The recommendations contained in this letter are based on data obtained during the stated site observations only. Soil conditions may vary throughout the site of the proposed disposal areas. Stover Engineering assumes no liability for conditions that differ from those observed by our staff at the time of the site visit.

We trust that this provides the information you require. Please feel free to contact me if you have any questions.

C 67604

Very truly yours,

STOVER ENGINEERING

Ryan C. Young, PE, PLS

Project Engineer

FyCy

QA/QC WY

Attachment (10 pages)

#### SITE EVALUATION SUMMARY

OWNER:

SIMPCO LANDS

DATE: 4/19/2019

ADDRESS: 3905 LAKE EARL DR.

JOB NO.: 4598

CRESLENT CITY CA 55531

APN: 106-021-059-000

LOCATION: 3905 LAKE EARL DRIVE

LOT SIZE:

13 AC

WATER SYSTEM: ON-SITE

GROUND SLOPE: 0-20/0

SETBACKS:

SEPTIC TANK

LEACH FIELD

(DELNORTE COUNTY MINIMUM)

✓ (10°)

V(10')

PROPERTY LINE

√ (100¹)

V (100')

WELL

NA(10')

N/A (10')

WATER LINE

N/A (100')

STREAM

 $N/A (100^{\circ})$ 

DRAINAGE CHANNEL

N/A (50')

N/A (50')

OCEAN, LAKE, ETC. BLUFF OR CUTBACK M/A (50') N/A (25') NIA (100') (25')NIA

PRIMARY AREA SITE(S):

TP1

REPLACEMENT SITE(S): TP Z

OTHER EXCAVATIONS

NONE

DEPTH TO HARDPAN, BEDROCK, ETC.: NONE OBSERVED

DEPTH TO GROUNDWATER: NONE OBSERVED

DEPTH TO MOTTLING: NOW !

OTHER FACTORS:

SOIL ANALYSIS ZONE: 2, 3 PERCOLATION RATE: 24-60

DEPTH OF SOILS

ACTUAL DEPTH AVAILABLE:

UNDER LEACHFIELD REQUIRED:

REPLACEMENT AREA AVAILABLE: YES

ADEQUATE?

OTHER COMMENTS:

			ON TEST LOG		
۶/m Project Name 3 q	PLO LANDS OS LAKE EARL	Job Number 44	by RCY 59B	Date 4/19/201	9
Hole Number	1	Hole Type B	OCK14Œ	APN 106-021	-059-000
Soil Sample	Depth (ft)		Soil De	scription	
	0'	Color	Туре	Structure	Saturation
	1	DARK BROWN	GANOY LOAM	MOD PLASTIC	Dey
	2				•
	3				
	4	TAN	SIANDY CLAY	PLASTIC WITH SAND	MOIST
	5	BROWN		GRAINS	
	6				
	7				
	8/	NO GROUNDA	VATER TO 8'		
	9				
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	11				
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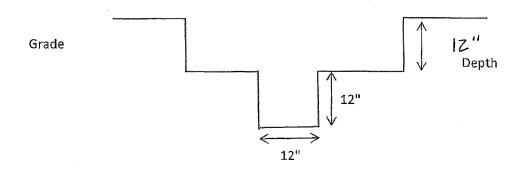
5/1 Project Name 390 Hole Number	n PLO LANDS 15 LAKE EARL 2		Bed B	Date 4/19/20 APN /06-021	
Soil Sample	Depth (ft)		Soil Des	scription	
	0'	Color	Туре	Structure	Saturation
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	12				MANUAL PROPERTY OF THE PROPERT

		P	ERCOLATION	ON TEST LO	G			
Project Name	3905 La	ke Earl Drive	# doL	4598	Test Date	4/25/19	Logged By	JDE
Hole Number	1	Hole Type		Hole Elevation	า		Water Table	NONE
Soil Type San I	y Loam, Loam	Water Supply	ON-SITE			APN	106-021-059	

Begin Tìme	End Time	Begin Level (inch)	End Level (inch)	Elapsed Time (minutes)	Drop (inch)	Rate (min/inch)
2:19	2:34	5.625	6.625	15	1	15
2:34	2:49	5.25	5.875	15	0.625	24
2:49	3:04	4.5	5.25	15	0.75	20
3:04	3:19	4.625	5.125	15	0.5	30
3:19	3:34	4.625	5.375	15	0.75	20
3:34	3:49	4.625	5,25	15	0.625	24
3:49	4:04	4.875	5.5	15	0.625	24
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Maximum Allowable Percolation Rate = 5 min/inch Minimum Allowable Percolation Rate = 60 min/inch STABILIZED RATE =

24 MIN/INCH

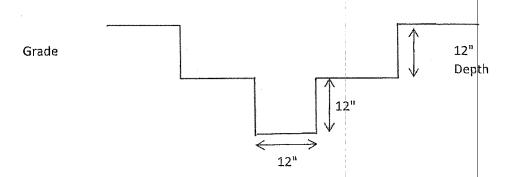


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Project Name	3905 L	ake Earl	Job#	4598	Test Date	4/25/	19 Logged By	JDE	
Hole Number	2	Hole Type		Hole Elevation			Water Table	NONE	
Soil Type Sandy	Loam, Loam	Water Supply	Onsite			APN	106-021-059		

Begin Time	End Time	Begin Level (inch)	End Level (inch)	Elapsed Time (minutes)	Drop (inch)	Rate (min/inch)
2:20	2:35	4.75	5	15	0.25	60
2:35	2:50	5	5.5	15	0.5	30
2:50	3:05	4.5	4.875	15	0.375	40
3:05	3:20	4.875	5.25	15	0.375	40
3:20	3:35	4.5	4.75	15	0.25	60
3:35	3:50	4.5	4.75	15	0.25	60
3:50	4:05	4.5	4.75	15	0.25	60
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Maximum Allowable Percolation Rate = 5 min/inch Minimum Allowable Percolation Rate = 60 min/inch STABILIZED RATE =

60 MIN/INCH



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711 H Street
Crescent City, CA 95531
(707) 465-6742 Fax (707) 465-5922

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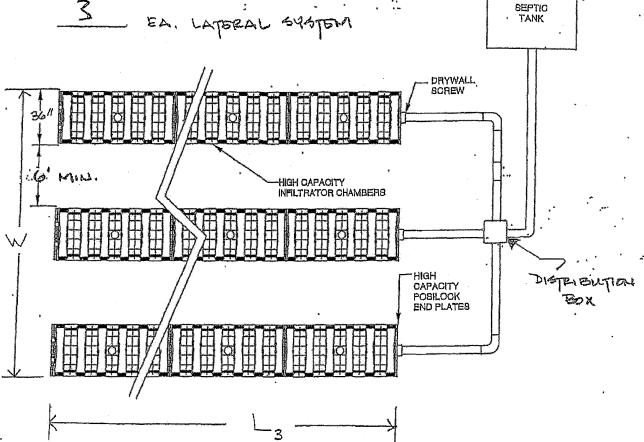
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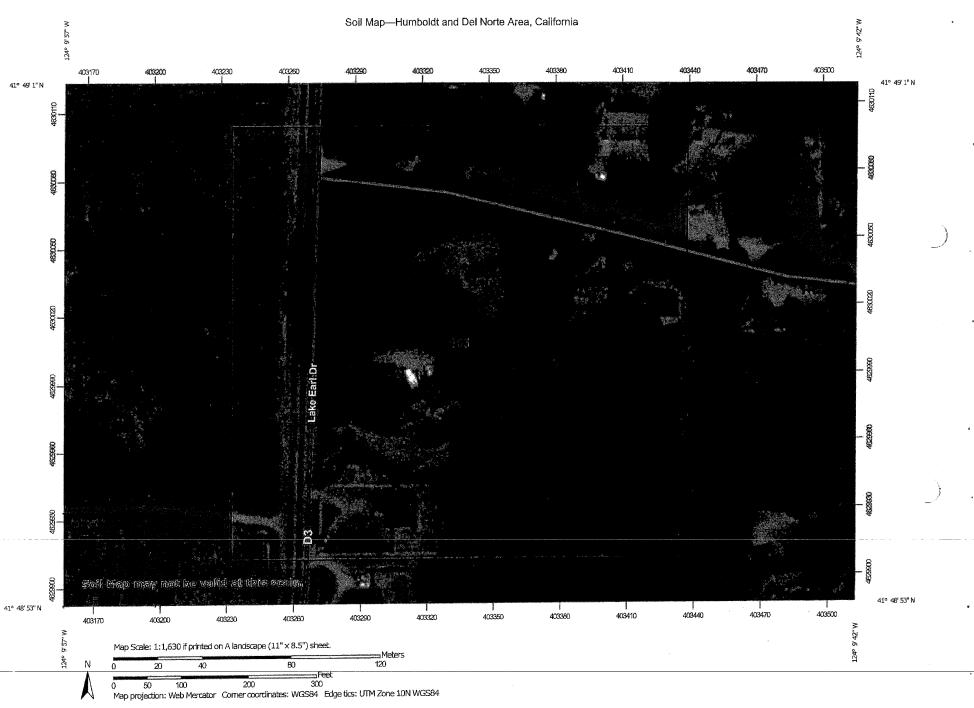
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LAYDUT TO SCALE-



TIGHT LINE FROM HOUSE

OVERALL LEACHFIELD WIDTH = 21



#### MAP LEGEND

#### Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

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Soil Map Unit Points

**Special Point Features** 

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

#### Water Features

Streams and Canals

Rails

#### Transportation

H

Interstate Highways

**US Routes** 



Major Roads

Local Roads

#### Background

Aerial Photography

# MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Humboldt and Del Norte Area, California Survey Area Data: Version 12, Sep 14, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Oct 11, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
185	Timmons and Lepoli soils, 0 to 2 percent slopes	9.7	100.0%
Totals for Area of Interest		9.7	100.0%

# Humboldt and Del Norte Area, California

# 185—Timmons and Lepoil soils, 0 to 2 percent slopes

## Map Unit Setting

National map unit symbol: 2dgkv

Elevation: 30 to 250 feet

Mean annual precipitation: 35 to 90 inches Mean annual air temperature: 52 to 55 degrees F

Frost-free period: 275 to 325 days

Farmland classification: Prime farmland if irrigated

## **Map Unit Composition**

Timmons and similar soils: 45 percent Lepoil and similar soils: 40 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

# **Description of Timmons**

## Setting

Landform: Marine terraces

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Mixed marine deposits

#### Typical profile

Ap - 0 to 19 inches: loam AB - 19 to 30 inches: loam Bt - 30 to 60 inches: clay loam

## Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Available water storage in profile: High (about 11.2 inches)

#### Interpretive groups

Land capability classification (irrigated): 1 Land capability classification (nonirrigated): 2s

Hydrologic Soil Group: C

Ecological site: Redwood-Sitka spruce/salal-California huckleberry/ western swordfern, marine terraces, marine deposits, sandy loam an (F004BX121CA)

Hydric soil rating: No

## **Description of Lepoil**

## Setting

Landform: Marine terraces

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Mixed marine deposits

## Typical profile

A - 0 to 10 inches: loam
AB - 10 to 22 inches: clay loam
Bt - 22 to 60 inches: clay loam

## Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.20 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Available water storage in profile: High (about 10.9 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2s

Hydrologic Soil Group: C

Ecological site: Redwood-Sitka spruce/salal-California huckleberry/ western swordfern, marine terraces, marine deposits, sandy loam an (F004BX121CA)

Hydric soil rating: No

## **Minor Components**

## Urban land, residential

Percent of map unit: 5 percent Landform: Marine terraces

Landform position (two-dimensional): Summit Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

# Hutsinpillar

Percent of map unit: 4 percent

Landform: Drainageways, alluvial fans

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread

Down-slope shape: Linear, concave Across-slope shape: Linear, concave

Hydric soil rating: Yes

# Megwil,

Percent of map unit: 3 percent Landform: Marine terraces

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: Redwood-Sitka spruce/California huckleberry-salmonberry/western swordfern-deer fern, marine terraces,

loam (F004BX120CA)

Hydric soil rating: No

#### Talawa

Percent of map unit: 3 percent Landform: Marine terraces

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread

Down-slope shape: Concave Across-slope shape: Concave

Hydric soil rating: Yes

# **Data Source Information**

Soil Survey Area: Humboldt and Del Norte Area, California

Survey Area Data: Version 12, Sep 14, 2018