

Mail PO Box 5310 Stateline, NV 89449-5310 Location 128 Market Street Stateline, NV 89449

Contact

Phone: 775-588-4547 Fax: 775-588-4527 www.trpa.gov

STAFF REPORT

Date:	January 25, 2024
То:	TRPA Hearings Officer
From:	TRPA Staff
Subject	Lands End, LLC Land Capability Challenge 2221 Lands End, Douglas County, Nevada APN: 1418-03-401-011, TRPA File #: LCAP2023-0254

Proposed Action:

Hearings Officer review and approve the proposed land capability challenge.

Staff Recommendation:

Staff recommends the TRPA Hearings Officer approve the land capability challenge on the subject parcel. A 1999 land capability verification determined this parcel to be Class 4 – CaD (4,979 square feet, 15 percent of the parcel) and Class 2- CaE (28,856 square feet, 85 percent of the parcel). This land capability challenge results Class 4 - XXX (27,396 square feet, 81 percent of the parcel), Class 2- XXX (6,113 square feet, 18 percent of the parcel), and Class 1a- TrE (326 square feet, 1 percent of the parcel).

Background:

The subject parcel is shown as Class 1a TRPA Land Capability Overlay Maps (aka Bailey Land Capability maps). The Soil Conservation Service *Soil Survey of Tahoe Basin Area, California-Nevada* (Roger 1974) places the subject parcel within the CaF, Cagwin-Rockout crop complex, 30 to 50 percent slopes mapunit. This parcel has a geomorphic mapping of C2-Stream cut granitic mountain slopes, strongly dissected lands (moderate hazard lands). The Cagwin soils are moderately deep, somewhat excessively drained soils that formed in material weathered from granitic rock. Cagwin soils have loamy coarse sand textures in the A-horizon, with loamy coarse sand or coarse sand subsurface textures in the upper 27 inches. Weathered granitic bedrock (grus) is encountered between 20 and 40 inches below ground surface.

A land capability challenge (LCAP2023-0254) was filed with TRPA on September 27, 2023. Ogilvy Consulting represents the owner, Lands End LLC. TRPA consultant, Marchel Munnecke visited the site on October 13, 2023 and observed and reviewed one soil pit description provided by Davis2 Consulting Earth Scientists.

Findings:

One soil pit was excavated by a backhoe to 60 inches. The pit was located between Lands End Road and the driveway, approximately 60 feet from the west boundary of the parcel, and 8 feet north of the driveway. The soil is characterized by a loamy coarse sand surface texture with gravelly loamy coarse sand, loamy coarse sand, and very bouldery sandy loam subsurface textures. A weak argillic horizon is present between 32 and 52 inches. This soil is very deep, well drained, and is a member of Soil Hydrologic Group B. The vegetation in the vicinity of the soil pit is irrigated lawn under an open Jeffrey pine canopy. Native vegetation is an open Jeffrey pine forest with montane shrubs such as greenleaf manzanita and huckleberry oak in the canopy openings.

This soil does not meet the range and characteristics of the Cagwin soil series as described in the *Soil Survey of Tahoe Basin Area, California-Nevada* (Rogers 1974) because it is deeper than 40 inches and has argillic soil development. This soil differs from the Jabu soil because it does not have a fragipan and differs from the Inville soil because it has less than 35 percent rock fragments in the particle control section. This soil does not meet the range and characteristics of other soils in the 1974 Tahoe Basin Soil Survey, so is an unmapped soil (XXX).

Using Table 4 in the Land Capability Classification of Lake Tahoe Basin, California-Nevada, and based on the slopes, this parcel is mapped as land capability Class 4 -XXX, 15 to 30 percent slopes and Class 2- XXX, greater than 30 percent slopes. A small portion is mapped Class 1a, TrE, Toem-Rock outcrop complex, 9 to 30 percent slopes.

This parcel is mapped as Cassenai gravelly loamy coarse sand, 15 to 30 percent slopes in the 2007 *Soil Survey of the Tahoe Basin Area, California and Nevada* (USDA 2007). The Cassenai soils are very deep sandy soils with little soil development. The soil on this site has argillic soil development, so does not meet the criteria of the Cassenai soils.

Land Capability District	Area (sq. ft.) 1999 LCV	Area (sq. ft.) 2023 LCC
Class 2 (CaD, 5 to 30 % slopes)	28,856	6,113
Class 4 (CaE, 15 to 30 % slopes)	4,979	27,396
Class 2 (XXX, >30 % slopes)	0	
Class 4 (XXX, 16 to 30 % slopes)	0	
1a (TrE, 9 to 30 % slopes)	0	326
Total Parcel Area	33,835	33,835

The table below summarizes the changes in land capability as concluded by this land capability challenge.660

BAILEY LAND CAPABILITY CHALLENGE FINDINGS

Site Information			
Assessor's Parcel Numbers: (APN)	1418-03-401-011		
TRPA File No. / Submittal Date:	LCAP2023-0254/ 9/27/2023		
Owner or Applicant:	Lands End LLC		
Address:	204 Second Ave., San Mateo, CA 94401		

Environmental Setting			
Bailey Soil Mapping Unit ¹ / CaF, Cagwin-Rock outcrop complex, 30 to 50 percent			
Hydrologic Soil Group (HSG) / Land	slopes/ HSG C/ C2-Stream cut granitic mountain slopes,		
Class / Geomorphic Hazard Unit	strongly dissected lands (moderate hazard lands).		
Soil Parent Material	Colluvium over residuum		
Slopes and Aspect	16 to 40 percent; sloping to the southeast		
Elevation and Datum	6,271 to 6,301 Turner and Associates, 10-18-2023		
Rock Outcrops and Surface	There are scattered stones and boulders are on the		
Configuration surface, with a small area of shallow soil and be			
	along the south parcel boundary.		
SEZ and Hydrology Source There is no SEZ on this parcel.			
Vegetation	Landscaping and patches of lawn are near the		
	residence. Native vegetation is a Jeffrey pine forest w		
	montane shrubs such as greenleaf manzanita and		
	huckleberry oak in canopy openings.		
Ground Cover Condition	Good (vegetation 65%, duff/mulch 55% cover)		
Site Features	Residence, decks, rocked walkway, A/C driveway, road		
	easement, retaining walls and tie steps.		

Field Investigation and Procedures			
Consultant and Address Marchel Munnecke (TRPA consultant)			
	Post Office Box 1015; Twin Bridges, CA 95735-1015		
TRPA Staff Field Dates	October 13, 2023		
SEZ Mapping / NRCS Hydric Soil	No SEZ on the parcel.		
Number of Soil Pits or Auger Holes	1 pit excavated by backhoe to 60 inches.		
and Description Depth			
Additional or Repetitive TRPA	NA		
Sample Locations			
Representative Soil Profile	Davis 2 Consulting, Land Capability Report, See		
Descriptions	Attachment B.		
Areas Not Examined	Residence, decks, rocked walkway, A/C driveway, road		
easement, retaining walls and tie steps.			

¹ TRPA currently relies upon the <u>Soil Survey of Tahoe Basin, California-Nevada</u> (Rogers and Soil Conservation Service, 1974), which the Bailey Land Capability system is predicated upon.

	TRPA Findings			
2006 Soil Survey Map Unit	Cassenai, gravelly loamy coarse sand 15 to 30 percent			
	slopes			
Consultant Soil Mapping	This parcel is determined to be Class 4- XXX, 16 to 30			
Determination and Rationale	percent slopes, Class 2- XXX, >30 percent slopes, and			
	Class 1a, TrE- Toem- Rock outcrop 9 to 30 percent			
	slopes.			
	This soil does not meet the range and characteristics of			
	the Cagwin soil series as described in the Soil Survey of			
	Tahoe Basin Area, California-Nevada (Rogers 1974)			
	because it is deeper than 40 inches and has argillic soi			
	development. This soil differs from the Jabu soil			
	because it does not have a fragipan and differs from the			
	Inville soil because it has less than 35 percent rock			
	fragments in the particle control section. This soil does			
	not meet the range and characteristics of other soils in			
	the 1974 Tahoe Basin Soil Survey, so is an unmapped			
	soil (XXX).			
Slope Determination	16 to 40 percent slopes			
TRPA Conclusion(s)	TRPA concurs with consultants' determination and			
	rationale above.			
Applicable Area	Entire parcel, see Attachment A.			

Contact Information:

This memorandum was jointly prepared by TRPA consultant, Marchel Munnecke (Pyramid Botanical Consultants) and TRPA Associate Planner, Julie Roll. If you have questions on this Hearings Officer item, please contact Julie Roll, 775-589-5247, or email at <u>iroll@trpa.gov</u>. To submit a written public comment, email <u>publiccomment@trpa.gov</u> with the appropriate agenda item in the subject line. Written comments received by 4 p.m. the day before a scheduled public meeting will be distributed and posted to the TRPA website before the meeting begins. TRPA does not guarantee written comments received after 4 p.m. the day before a meeting will be distributed and posted in time for the meeting.

Attachments:

- A. Site Plan
- B. Soils report, prepared by Davis2 Consulting Earth Scientists

Attachment A Site Plan





LEGEN	D
A/C	ASP
CD	COM
DI	DRA
FH	FIRE
L/S	LAN
OT	OTH
Р	PINE
PP	POW
R&M	ROCI
R.R.	RAIL
S	SPR
SSCO	SAN
SSMH	SAN
x7777.7'	SPO
11	EDG
(R)	RECO
(M)	MFA

CATEG

RF A/C DRIV A/C DRIVEWAYS (USE ROCK WALKS WOO R.R. TIE

> PER DEED CATEG A/C ROADWAY (L

166.01' (R)	NOTES THIS SURVEY HAS BEEN PREPARED WITHOUT USE OF A TITLE REPORT UN TURNER AND ASSOCIATES INC. ASSUMES NO RESPONSIBILITY FOR ANY E. PROPERTY OWNER AND/OR DESIGNER MUST VERIFY BUILDING SETBACKS AN ONLY VISIBLE UTILITIES AND FEATURES HAVE BEEN LOCATED. THIS DRAWING OR MAP IS THE PROPERTY OF TURNER & ASSOCIATES INC.
165.95' (M)	BENCH MARK NUMBER ELEVATION 6222.63' DATUM BUREAU OF RECLAMATION APN: 1418-
TA TURNER & ASSOCIATES, INC. LAND SURVEYING (775) 588-5658 ADMIN@TURNERSURVEYING NET 308 DORIA (OURT SUITE 203 - ROUND HUL NEVADA 89648	DESCRIPTION WATER LEVEL OF LAKE TAHOE ON 05AUG15 SCALE REVISION NO. DATE
P.O. BOX 5067 - STATELINE, NEVADA 89449	

SPHALTIC CONCRETE OMPACTED DIRT RAIN INLET E HYDRANT ANDSCAPE/NATURAL GROUND THER TREE INE TREE OWER POLE OCK AND MORTAR ILROAD PRUCE TREE ANITARY SEWER CLEANOUT ANITARY SEWER MANHOLE POT ELEVATION OGE OF PAVEMENT CORD PER DEED ASURED

COVERAGE W/ 3:1 HEIGHT REDUCTION WHERE APPLICABLE

ORY	SQUA	ARE	FEET
SIDENCE/GARAGE		257	9
VEWAY/PARKING		325	2
ED BY OTHERS)		103	2
RAVEL PARKING		32	2
(S/ENTRY/STEPS		116	2
TIE & CD STEPS	······	10	7
CONCRETE PADS		10	6
TOTAL		9,13	0

COVERAGE WITHIN ROADWAY EASEMENT

ORY			SQU	ARE	FEET
ANDS	END	RD.)		448	15
	T	DTAL		4,48	15

OWNER & MAILING ADDRESS 2221 LANDS END LLC 204 2ND AVE. #901 SAN MATEO, CA 94401

GROSS LAND AREA 33,835 SQUARE FEET

NET LAND AREA (SUBTRACT ROADWAY EASEMENT) 27,505 SQUARE FEET

ILESS REFERENCED HEREON, ASEMENTS WHICH MAY AFFECT THIS PROPERTY ID ANY OTHER BUILDING RESTRICTIONS BEFORE ANY DESIGN OR AND MAY NOT BE USED OR REPRODUCED WITHOUT THE CONS	CONSTRUCT	ON. NFR & ASSOCI	ATES INC.		MA		
					USURV.	EXO	DATE
IUPUGRAPHIL SURVE	Ý			S AN		accord S. A.	DAIL
TY DED DOC NO 201		10061		T A	EFFER	YW. STAN	0CT
II PLR DUL. NU. 202	2 - 7	70701		NOI	TURN	ERV	2023
-03 - 1.01 - 011 - 2221 - 01		FND	RN	S S B G	Exp.€/-		SHEET
05401011, 2221 LAN			\square	Store H	ano ano	COCOCO AN	1
			× 1	ADD.	No. 21	260	OF
DOUGLAS CO., NV				18	OCT	23	1
HORIZ. <u>1''=20'</u> VERT. <u>2' C.I.</u>	FIELD sw-jf	DRAWN JF	FILE NA 23172.D	AME WG	_ CF	IECKED JWT	JOB NO. 23172
DESCRIPTION			-			BY	CHKD
							2

Attachment B Soils report, prepared by Davis2 Consulting Earth Scientists

DAVIS² Consulting Earth Scientists

P.O. Box 734 · Georgetown, CA 95634 · Tel. (530) 559-1405; davis2consulting@sbcglobal.net

Land Capability Challenge Glenbrook Lands End LLC Douglas County Nevada (APN 1418-03-401-011)

November 30, 2023

INTRODUCTION

A soil investigation was conducted on the parcel on October 12, 2023. The objective of the study was to identify soils and other features and relate them to Land Capability, which is administered by the Tahoe Regional Planning Agency (TRPA) for the purpose impervious coverage regulation, by Chapter 30 of the Code of Ordinances.

The parcel supports an existing single-family residential dwelling on 0.659 acres of land, located at 2221 Lands End Road. This work is advanced at the request of Ogilvy Consulting, Tahoe City, California.

Soil information contained in this report is for the strict use of land capability and it should not be used for building foundation design, slope stability, hazard waste assessment or seismic analyses. In this report the term "soil" refers to the surface weathering of rocks and sediments as typically used in agriculture, forestry, and erosion control. In contrast, the typical engineering use of the "soil" refers to the strength of deeper materials, often a few to tens or more feet deep.

ENVIRONMENTAL SETTING

The site is located at 2221 Lands End Road, Glenbrook, Nevada. Vegetation consists of Jeffrey pine, landscaped ornamentals and sod lawn. Slopes range between 16 and 30 percent on a southeasterly aspect. There are no stream environment zones (SEZ) influencing this parcel.

Soils are shown on TRPA map sheet H-10 as CaF (Cagwin-rock outcrop complex, 30 to 50 percent slopes). Geology (Bernett, 1968) is characterized as Gr (granite). Bailey's (1974) geomorphic analysis shows the parcel within C_2 (Strongly dissected lands).

METHODOLOGY

For this investigation, we surveyed the parcel and immediately adjacent areas (Figure attached). We then measured and technically described a discrete soil profile, representative of the site-specific landform. By use of a backhoe excavator, we exposed the near- surface sediments to depths ranging from 0 to x 5 ft deep. We then formally described and measured the physical properties of the soils following procedures of the National Cooperative Soil Survey. We similarly documented groundwater levels using visual methodologies. Information gathered at the site was compared to the *Soil Survey of the Lake Tahoe Basin, California-Nevada* (Rogers et al, 1974) and to criteria of the *Land*-

Capability Classification of the Lake Tahoe Basin, California-Nevada (Bailey, 1974) for proper placement in the appropriate land capability class. A detailed topographic base map supplied by Turner and Associates, Inc., was available in the field for ground control and slope analysis. Information pertaining to land capability districts is shown on the base map.

FINDINGS

Soils are found to be deep and well drained, members of Soil Hydrologic Group B. They can be characterized having very dark grayish brown gravely loamy coarse sand topsoil approximately 16 thick, over brown very bouldery sandy loam subsoil to 52 inches depth underlain by olive brown loamy coarse sand. A weak argillic subhorizon is expressed which excludes this soil from the range and characteristics of Cagwin series. These soils are also other than Jabu series which displays a fragipan or Inville series, which are skeletal.

Soils found are unnamed in the Lake Tahoe basin soil survey and are treated as "XXX" for evaluation. Soils with slopes ranging from 16 to 30 percent slopes and members of Soil Hydrologic Group B place in Land Capability Class 4. Slopes exceeding 30 percent rate in Class 2. Class 2 areas were not evaluated because coverage could not be improved.

CONCLUSIONS AND RECOMMENDATIONS

Soils found are unnamed (XXX) and place in Land Capability Classes 4 and 2. Please refer to the following soil profile description that supports the findings and the attached map showing the spatial distribution of the appropriate land capability classes on the parcel.

Respectfully submitted,

Sidney/W. Davis, CPSS /SC No. 1031

Representative Soil Profile Description

- O 0-2 inches, turf
- A1 2-6 inches, very dark grayish brown (10YR 3/2) moist; loamy coarse sand; weak fine granular structure; soft, loose, nonsticky and nonplastic; many fine common medium and few coarse roots; many fine and fine interstitial pores; five percent gravel; clear smooth boundary.

DAVIS² CONSULTING EARTH SCIENTISTS, INC. • Georgetown, California

- A2 6 16 inches, dark brown (10YR 3/3) moist; gravelly loamy coarse sand near sandy loam; moderate medium granular structure; soft, loose, nonsticky and nonplastic; many fine medium and common coarse roots; many fine and fine interstitial pores; twenty percent gravel; gradual smooth boundary.
- Bw 16 32 inches, dark brown (10YR 3/3) moist; loamy coarse sand; moderate medium subangular blocky structure; soft, loose, nonsticky and nonplastic; common fine and many medium and many coarse roots; many fine and fine interstitial pores; ten percent gravel; gradual wavy boundary.
- Bt 32 52 inches, brown (10YR 4/3) moist; very bouldery sandy loam; strong medium subangular blocky structure; slightly hard, friable; slightly sticky and plastic; few fine moderate medium and few coarse roots; many fine and medium tubular pores; few thin bridges holding mineral grains together; ten percent gravel and thirty percent boulders; gradual wavy boundary.
- C 52 60 inches, light olive brown (2.5Y 5/4) moist; loamy coarse sand; massive; slightly hard, very friable, nonsticky and nonplastic; few fine and coarse roots; common very fine interstitial pores.

Note: Landscaped yard. Irrigated.

Soil Series: Unnamed (XXX) Soil Classification: Sandy, mixed, frigid Ultic Haploxeralfs Soil Drainage Class: Well drained Hydrologic Soil Group: B



Figure 1 - Soil profile



Figure 2- Landscape

DAVIS² CONSULTING EARTH SCIENTISTS, INC. • Georgetown, California



Douglas APN 1418-03-401-011 2221 Lands End Road, Douglas County, NV

November 18, 2023

DAVIS2 CONSULTING EARTH SCIENTISTS, INC. P.0. Box 734, Georgetown, CA 95634 Tel. (530) 559-1405; email: sid@davis2consult.com





APN: 1418-03-401-012



LEGEND			
A/C	ASP		
CD	COM		
DI	DRA		
FH	FIRE		
L/S	LAN		
OT	OTH		
Р	PINE		
PP	POW		
R&M	ROCH		
R.R.	RAIL		
S	SPR		
SSCO	SAN		
SSMH	SAN		
x7777.7'	SPO		
111	EDG		
(R)	RECO		
(M)	MEA		

CATEG

A/C DRIV ROCK WALK WOC R.R. TI

> PER DEED CATEG A/C ROADWAY (L

4.1

· · ·

166.01' (R)		NOTES THIS SURVEY HAS BEEN PREPARED WITHOUT USE OF A TITLE REPORT U TURNER AND ASSOCIATES INC. ASSUMES NO RESPONSIBILITY FOR ANY PROPERTY OWNER AND/OR DESIGNER MUST VERIFY BUILDING SETBACKS A ONLY VISIBLE UTILITIES AND FEATURES HAVE BEEN LOCATED. THIS DRAWING OR MAP IS THE PROPERTY OF TURNER & ASSOCIATES INIT			
165.95' (M)		BENCH MARK NUMBER ELEVATION <u>6222.63'</u> DATUM <u>BUREAU OF</u> <u>RECLAMATION</u>	PROPER APN: 1418-		
	TA TURNER & ASSOCIATES, INC. LAND SURVEYING (775) 588-5658 ADMIN@TURNERSURVEYING.NET 308 DORLA COURT, SUITE 203 - ROUND HILL, NEVADA 89448 P.O. BOX 5067 - STATELINE, NEVADA 89449	DESCRIPTION WATER LEVEL OF LAKE TAHOE ON 05AUG15 REVISION NO. DATE	SCALE		

PHALTIC CONCRETE 1PACTED DIRT AIN INLET E HYDRANT NDSCAPE/NATURAL GROUND HER TREE TREE OWER POLE OCK AND MORTAR ROAD RUCE TREE NITARY SEWER CLEANOUT NITARY SEWER MANHOLE POT ELEVATION E OF PAVEMENT CORD PER DEED ASURED

COVERAGE W/ 3:1 HEIGHT REDUCTION WHERE APPLICABLE

ORY	SQUA	ARE	FEET
SIDENCE/GARAGE VEWAY/PARKING ED BY OTHERS) RAVEL PARKING (S/ENTRY/STEPS		257 325 103 32 116 57	9 2 2 2 2
CONCRETE PADS	······	10 10	7 6
TOTAL		9,13	0

COVERAGE WITHIN ROADWAY EASEMENT

ORY			SQU	ARE	FEET
ANDS	END	RD.)		448	15
	TOTAL			4,48	15

OWNER & MAILING ADDRESS 2221 LANDS END LLC 204 2ND AVE. #901 SAN MATEO, CA 94401

GROSS LAND AREA 33,835 SQUARE FEET

NET LAND AREA (SUBTRACT ROADWAY EASEMENT) 27,505 SQUARE FEET

LESS REFERENCED HEREON, ASEMENTS WHICH MAY AFFECT THIS PROPERTY ID ANY OTHER BUILDING RESTRICTIONS BEFORE ANY DESIGN OR , AND MAY NOT BE USED OR REPRODUCED WITHOUT THE CONS	CONSTRUCTIO	DN. NER & ASSOCI	ATES INC.				
TOPOGRAPHIC SURVE	Y		ę.	A A	SURV.	EYOR	DATE
TY PER DOC. NO. 202	<u>2</u> 3–9°	98961		NOIS CONTRACTOR	JEFFER TURN	ERV 800	ОСТ 2023
-03-401-011, 2221 LAN	DS I	END	RD.	ACT STOR	Exp. 2/-		SHEE T
DOUGLAS CO., NV			s	18	No. 21	260	OF 1
HORIZ. <u>1''=20'</u> VERT. <u>2' C.I.</u>	FIELD sw-jf	DRAWN JF	FILE N. 23172.D	AME wg	CF	IECKED JWT	JOB NO. 23172
DESCRIPTION						BY	CHKD
							и.