

Coos County Planning Department Application to Develop in a Special Flood Hazard Area

Official U	se Only
Fee	\$500.00
Receipt No.	214553
Check No./Cash	133
Date	3/2/20
Received By	Or
File No.	FP-720-00

The undersigned hereby makes application for a permit to develop in a designated Special Flood Hazard Area ("floodplain"). The work to be performed is described below and in attachments hereto. The undersigned agrees that all such work shall be done in accordance with the requirements of the Coos County Comprehensive Plan, Coos County Zoning and Land Development Ordinance, and any other applicable Local, State, and Federal regulations. This application does not create liability on the part of the Coos County Planning Department or any officer or employee thereof for any flood damage that results from the reliance on this application or any decision made lawfully thereunder.

Owner(s):	CHRIS LUECKE; ETAL	Telephone:	435.764-6033		
Address:	198 S. 200 E		,		
City/State:	PROVIDENCE, UT	Zip Code:	84332		
Agent(s):	TROY RAMBO	Telephone:	541-751-8900		
Address:	P.O. Box 809				
City/State:	NORTH BUND, OR	Zip Code:	97459		
Township:	295	Section:	35 C		
Range:	15W	Tax Lot:	1200		
Situs Address:	86354 Lower Fourm	ile LN.			
City/State:	BANDON, OR 97459	Zip Code:	974//		
A. Description of Work (Complete for All Proposals):					
1. Proposed Development Description:					
	Building - GARAGE ufactured Structure er	☐ Improveme	nt to Existing Building		

	2. Size and location of proposed development (a site plan must be attached):						
	24 xzo' GARAGE						
	-						
		s the proposed H, AO, V, or V		nent in	ı a Special	Flood Hazard Area (Zones A, AE, A1-A30,	
	☐ Yes Zone: A						
	4. Per the FIRM, what is the zone and panel number of the area of the proposed development?						
	Zoi	ne:	A				
	Par	nel Number:	410110	סטרס	F		
	5. H	ave any other	Federal, S	tate, o	r Local pe	rmits been obtained?	
	☐ Yes - Copies of all permits must be attached.☒ No						
	6. Is the proposed development in an identified floodway?						
	 ☐ Yes - A "No Rise Certification" with supporting data must be attached. ☐ No 						
	Complete for New Structures and Building Site:						
1.	1. Base Flood Elevation (BFE) at the site (complete one):						
		NGVD 29		feet	Source:		
	\triangleright	NAVD 88	ר.רו 🕱	feet	Source:	SER AHACHED ELEVATION CURTIFICATE	
2.	2. Required lowest floor elevation, including basement (complete one):						
		NGVD 29		feet	Source:		
	X	NAVD 88	18.7	feet	Source:	N/A	
3.	3. Number and area of flood openings (vents):					Ö	
4.	. Enclosed area below BFE (in square feet):						

B.

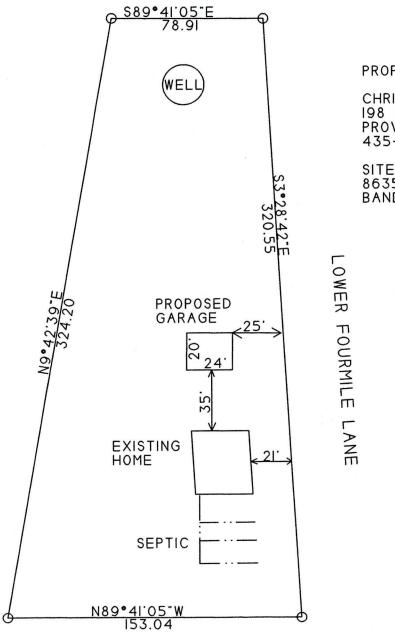
NIA	C.		Complete for Alterations, Additions, or Improvements to Existing Structures:
		1.	What is the estimated market value of the existing structure? Justification for the estimate must be attached and may include, but is not limited to, appraisals completed by private agencies or the County Assessor's office.
			N/A
		2.	What is the cost of the proposed construction? Justification for the estimate must be attached. The estimate is required to include fair market value for any work provided by the property owner or without compensation.
		3.	If the cost of the proposed construction equals or exceeds 50 percent of the market value of the structure, then the substantial improvement provisions shall apply.
NIA	D.		Complete for Non-Residential Floodproofed Construction:
		1.	Type of floodproofing method:
		2.	The required floodproofing elevation is (complete one):
			□ NGVD 29 feet Source:
			□ NAVD 88 feet Source:
		3.	Floodproofing certification by a registered engineer must be attached.
NA	E.		Complete for Land Divisions, Subdivisions, and Planned Unit Development:
		1.	Does the proposal contain 50 lots or 5 acres?
			☐ Yes - The plat or proposal must clearly identify base flood elevation.☐ No
		2.	Are the 100-year Floodplain and Floodway delineated on the site plan?
			☐ Yes ☐ No

	orization: All areas must be initialed by all applicant(s) prior to the Planning tment accepting any application.
Applicant	I hereby attest that I am authorized to make the application for Application to Develop in a Special Flood Hazard Area and the statements within this application are true and correct to the best of my knowledge and belief. I affirm that this is a legally created tract, lot or parcel of land. I understand that I have the right to an attorney for verification as to the creation of the subject property. I understand that any action authorized by Coos County may be revoked if it is determined that the action was issued based upon false statements or misrepresentation.
Applicant	I understand it is the function of the Planning Department to impartially review my application and to address all issues affecting it regardless of whether the issues promote or hinder the approval of my application. In the event a public hearing is required to consider my application, I agree I bear the burden of proof. I understand that approval is not guaranteed and the applicant(s) bear the burden of proof to demonstrate compliance with the applicable review criteria.
Applicant	As applicant(s) I/we acknowledge that is in my/our desire to submit this application and staff has not encouraged or discouraged the submittal of this application.
Chi ,	Christ weeker Mesner
Applicant(s) (Original Signature Applicant(s) Original Signature

3-2-20 Date

3/2/2020

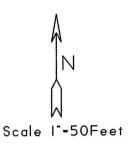
LUECKE PLOT PLAN T.L. 1200 - 29S 15W 35C ACC.# 1243400



PROPERTY OWNER:

CHRIS LUECKE: ETAL 198 S. 200 E PROVIDENCE. UT 84332 435-764-6033

SITE ADDRESS: 86354 LOWER FOURMILE LN. BANDON. OR 97411



U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A - PROPERTY INFORMATION						FOR INSU	RANCE COMPANY USE	
A1. Building Own Chris Luecke; ETA							Policy Nun	nber:
A2. Building Stree Box No. 86354 Lower Four		ding Apt., Unit, Sui	te, and/o	or Bldg. No.)	or P.O.	Route and	Company f	NAIC Number:
City Bandon				State Oregon	1		ZIP Code 97411	
A3. Property Desc Tax Lot 1200 - Ass			ax Parce	l Number, Le	gal Des	scription, et	c.)	
A4. Building Use (e.g., Residential	, Non-Residential,	Addition	, Accessory,	etc.)	Garage	and the second s	
A5. Latitude/Long	itude: Lat. 43.01	1413 N	Long. 1	24.44869 W		Horizonta	l Datum: NAD	1927 × NAD 1983
A6. Attach at leas	t 2 photographs	of the building if th	e Certific	cate is being i	used to	obtain floo	d insurance.	
A7. Building Diagr	am Number	1A						
A8. For a building	with a crawlspac	e or enclosure(s):						
a) Square foo	tage of crawlspa	ice or enclosure(s)				sq ft		
b) Number of	permanent flood	openings in the cr	awispac	e or enclosur	e(s) with	hin 1.0 foot	above adjacent gra	ade
c) Total net ar	ea of flood openi	ings in A8.b		sq ir	1			
d) Engineered	I flood openings?	? Yes N	No					
A9. For a building	with an attached	garage:						
a) Square foot	a) Square footage of attached garagesq ft							
b) Number of	permanent flood	openings in the att	tached g	arage within	1.0 foot	above adj	acent grade	
c) Total net are	ea of flood openi	ngs in A9.b		sq	in			
d) Engineered	flood openings?	Yes N	10					
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION								
B1. NFIP Commun				B2. County				B3. State
Coos County, Unin	corporated Area			Coos				Oregon
B4. Map/Panel Number	B5. Suffix B6	6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. FI Zone(B9. Base Flood E (Zone AO, use	levation(s) e Base Flood Depth)
41011C0700	F		12-07-2		Α		17.7 feet	
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: FIS Profile FIRM Community Determined Other/Source: See Comments								
B11. Indicate elevation datum used for BFE in Item B9: NGVD 1929 X NAVD 1988 Other/Source:								
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Yes No								
Designation Date: CBRS OPA								

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

MPORTANT: In these spaces, copy the corresponding information from Section A. FOR INSURANCE COMPANY US						
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. Policy Number: 86354 Lower Fourmile Lane						
City State Bandon Oreg			Company NAIC Number			
SECTION C - BUILDING ELE	VATION INFORMAT	ION (SURVEY RE	QUIRED)			
C1. Building elevations are based on:	_	ding Under Construc	ction*			
*A new Elevation Certificate will be required when cor C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), V			AE AR/A1_A30 AR/AH AR/AO			
Complete Items C2.a-h below according to the building	ng diagram specified in Vertical Datum:	n Item A7. In Puerto	Rico only, enter meters.			
Benchmark Utilized: OA0760						
Indicate elevation datum used for the elevations in ite		v.				
☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/So Datum used for building elevations must be the same	as that used for the B	FE.				
Datam used for building elevations must be the same	45 (14) 4504 101 110 2	· -	Check the measurement used.			
 a) Top of bottom floor (including basement, crawlspa 	ce, or enclosure floor)		20.0 X feet meters			
b) Top of the next higher floor			N/A feet meters			
c) Bottom of the lowest horizontal structural member	(V Zones only)		N/A feet meters			
d) Attached garage (top of slab)	,		N/A feet meters			
e) Lowest elevation of machinery or equipment service (Describe type of equipment and location in Communication in Commu	cing the building nents)	11. C.	N/A feet meters			
and the second s		19.5 X feet meters				
g) Highest adjacent (finished) grade next to building (LAG) g) Highest adjacent (finished) grade next to building (HAG) 19.0 🔀 feet 🗌 meters						
h) Lowest adjacent grade at lowest elevation of deck						
structural support			N/A feet meters			
SECTION D - SURVEYOR, E						
This certification is to be signed and sealed by a land surv I certify that the information on this Certificate represents r statement may be punishable by fine or imprisonment und	nv best efforts to interi	oret tne data avallal	law to certify elevation information. ble. I understand that any false			
Were latitude and longitude in Section A provided by a lice	nsed land surveyor?		Check here if attachments.			
Certifier's Name	License Number		RECISTERED			
Troy Rambo	LS 2865		PROFESSIONAL			
Title Member			LANDSURVEYOR			
			Figce			
Company Name Mulkins & Rambo, LLC			I wy Stanto			
Address P.O. Box 809			Flere			
City	State	ZIP Code	2600			
North Bend	Oregon	97459	RUNGWAL 12-31-2020			
Signature Leng Ramba	Date 12-06-2019	Telephone (541) 751-8900	Ext.			
Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.						
Comments (including type of equipment and location, per C2(e), if applicable) The B.F.E. of 14.0 feet for the existing home on the subject property was determined by Ralph Dunhan, P.E. #34,441, in 2002. The datum used NGVD 1929. The program CORPSCON version 6.0.1 was used to convert the NGVD 1929 datum to NAVD 1988 datum. The Latitude and Longitude were taken from Google Earth.						

REAL PROPERTY TAX STATEMENT JULY 1, 2019 TO JUNE 30, 202 COOS COUNTY, OREGON

250 NORTH BAXTER

ACCOUNT NO: 1243301

PROPERTY DESCRIPTION COQUILLE, OREGON 97423 CODE: 4600 SOUTH COAST ESD 1.22 29S1535-C0-01000 U1 MAP: PORT ORFORD/LANGLOIS SCHOOL #46 10.97 ACRES: 1.08 12.19 EDUCATION TOTAL: SITUS: 0.25 COOS COUNTY-4H/EXTENSION LUECKE, CHRIS; ETAL COOS COUNTY-LIBRARY SERVICES 2.01 198 S 200 E 2 98 COOS COUNTY PROVIDENCE, UT 84332-9679 0.90 PORT OF BANDON 0 66 COOS COUNTY AIRPORT SOUTHERN COOS HEALTH DISTRICT 2.46 0 02 COOS COUNTY URBAN RENEWAL COOS CO UR SPECIAL LEVY 0.00 LAST YEAR THIS YEAR GENERAL GOVT TOTAL: 9.28 VALUES: REAL MARKET (RMV) 0.66 2,840 COOS COUNTY 2,810 LAND 18.75 FIRE PATROL 0 **STRUCTURES** 0 19.41 BONDS - OTHER TOTAL: 2,840 2,810 **TOTAL RMV** 2 770 TOTAL ACCECCED WALLIE 2 600 REAL PROPERTY TAX STATEMENT JULY 1, 2019 TO JUNE 30, 2020 ACCOUNT NO: COOS COUNTY, OREGON 1243408 250 NORTH BAXTER PROPERTY DESCRIPTION COQUILLE, OREGON 97423 CODE: 4600 29S1535-C0-01202 U2 SOUTH COAST ESD 6 23 MAP: PORT ORFORD/LANGLOIS SCHOOL #46 55.79 8.20 ACRES: EDUCATION TOTAL: 62.02 SITUS: COOS COUNTY-4H/EXTENSION 1.25 LUECKE, CHRIS; ETAL COOS COUNTY-LIBRARY SERVICES 10.24 198 S 200 E 15.18 COOS COUNTY **PROVIDENCE, UT 84332-9679** PORT OF BANDON 4.58 COOS COUNTY AIRPORT 3.37 SOUTHERN COOS HEALTH DISTRICT 12.53 0.09 COOS COUNTY URBAN RENEWAL 0.00 COOS CO UR SPECIAL LEVY THIS YEAR LAST YEAR GENERAL GOVT TOTAL: 47.24 VALUES: REAL MARKET (RMV) 26,930 26,660 COOS COUNTY 3.34 LAND BONDS - OTHER TOTAL: 3.34 0 STRUCTURES 26,930 26,660 **TOTAL RMV** 13,680 14,090 TOTAL ASSESSED VALUE **EXEMPTIONS** 14,090 13,680 NET TAXABLE:

REAL PROPERTY TAX STATEMENT JULY 1, 2019 TO JUNE 30, 2020 COOS COUNTY, OREGON 250 NORTH BAXTER

112 60

THIS YEAR

COOS COUNTY URBAN RENEWAL

COOS CO UR SPECIAL LEVY

ACCOUNT NO:

1243400

131.37 1,176.32 1,307.69

> 26.32 216.01 320.04 372.36 96.52 71.15 264.16 1.96

> > 0.00

		250 NORTH BAXTER
PROPERT	TY DESCRIPTION	COQUILLE, OREGON 97423
CODE: MAP: ACRES:	4602 29S1535-C0-01200 0.90	SOUTH COAST ESD PORT ORFORD/LANGLOIS SCHOOL #46 EDUCATION TOTAL:
SITUS:	86354 LOWER FOURMILE LN BANDON	
	LUECKE, CHRIS; ETAL 198 S 200 E PROVIDENCE, UT 84332-9679	COOS COUNTY-4H/EXTENSION COOS COUNTY-LIBRARY SERVICES COOS COUNTY BANDON RFPD PORT OF BANDON COOS COUNTY AIRPORT
		SOUTHERN COOS HEALTH DISTRICT

109 39

LAST YEAR

FOTAL PROPERTY TAX:

VALUES:



Reference: 619118

October 11, 2019

Chris Luecke and Nancy Mesner 198 S. 200 E. Providence, UT 84332

Subject:

Geologic Assessment for the Proposed Construction of an Accessory Structure, 86354 Lower Fourmile Road, Bandon, Coos County; Tax Lot 1200, 29S15W35C

1.0 Introduction

1.1 General

This report presents the results of a focused geologic assessment for the proposed construction of a metal building that will serve as a detached garage (accessory structure) to the existing residence at the above referenced parcel. We understand that the parcel is identified as being in a *Coastal Shoreline Boundary*, and a *Tsunami Hazard* and *Liquefaction Hazard Overlay Zone*. Pursuant to the Coos County Zoning and Land Development Ordinance, a Certified Engineering Geologist from SHN conducted a site visit on October 8, 2019, to assess potential adverse impacts that may occur to, or be created by, the planned development. SHN's scope of services included a review of published geologic mapping and aerial imagery, performing a geologic field reconnaissance of the project site and vicinity, and preparation of this report.

The primary purpose of SHN's assessment was to establish findings in consideration of the following site conditions:

- 1. The type of use proposed and adverse effects it might have on the site and adjacent areas
- 2. The need for temporary and permanent stabilization programs and the planned maintenance of new and existing vegetation
- 3. The need for methods for protecting the surrounding area from any adverse effects of the development
- 4. Hazards to life, public and private property, and the natural environment that may be caused by the proposed use

The tsunami inundation hazard from a Cascadia subduction zone earthquake notwithstanding, we conclude that that the planned development is adequately protected from geologic hazards (such as, wind erosion and deposition, stream flooding and undercutting, storm waves, and liquefaction). Based on the current conditions at the site and surrounding areas, including the distance from the beach, active foredune and backdune, nearest waterway, and other local residential developments, the proposed metal building can be constructed at the owners' chosen location such that it will not be subject to unreasonable risk from the aforementioned geologic hazards.

1.2 Project Description

SHN understands that the proposed development includes the construction of a new metal building that will serve as a detached garage and storage building to the existing residence. The building footprint will be located near the current driveway entrance and approximately 40 feet north of the existing residence. The building will have dimensions of approximately 16 feet by 20 feet and will be supported by and attached to, a reinforced concrete slab-on-grade foundation.

The new building is to be considered an accessory structure to the residence, and by definition, does not represent a significant investment in accordance with Coos County development standards. The parcel owners are, therefore, requesting that the proposed development not be held to the same standard of a habitable residential structure with regard to the application of flood plain management measures. In lieu of the elevation standard pertaining to new construction and substantial improvements of residential structures, accessory structures may be permitted provided: a) Accessory structures shall not be used for human habitation; b) Accessory structures shall be designed to have low flood damage potential; c) Accessory structures shall be constructed and placed on the building site so as to offer the minimum resistance to the flow of floodwaters; d) Accessory structures shall be firmly anchored to prevent flotation, which may result in damage to other structures; and e) Service facilities (such as, electrical and heating equipment) shall be elevated above the base flood elevation or flood proofed. Based on the owners' proposed building location and intended use, type of building, and type of foundation system, it is our professional judgement that these conditions will be met.

2.0 Site Conditions

The parcel is situated on the northern margin of the Fourmile Creek valley and is underlain by late Quaternary age alluvium composed of dune and stream deposits. Older marine terrace deposits are exposed in a borrow pit on Lower Fourmile Road approximately 1.5 miles to the east of the site, and presumably underlie the alluvium at some unknown but relatively shallow depth.

A dune deflation surface is about 400 feet to the west of the site and currently serves as the drainage outlet to Fourmile Creek as well as all other coastal plain creeks and lakes to the north and south. The active unforested foredune and backdune are more than 1,200 feet and 850 feet, respectively, to the west of the site and opposite the Fourmile Creek waterway. Forested stabilized dunes are more than 2,000 feet to the north and south of the site. Much of the local terrain in proximity to the site has been modified by past grading for the construction of the local roadways, cranberry bogs, pastureland, and residences.

The proposed metal building footprint is located on nearly level to very gently sloping ground. The nearest descending slopes are located at the edge of the Fourmile Creek highwater bank, more than 250 feet west of the site. No wet areas of standing water are apparent in proximity to the site. In general, the site alluvial soils appear well drained. No surface erosion or evidence of concentrated surface runoff is evident, indicating that drainage of stormwater runoff occurs primarily by sheet flow and infiltration into the subsurface.



3.0 Findings

3.1 General

The proposed building footprint for the new metal building appears to be the most suitable location for new construction on the parcel. The new building will be in proximity to the existing residence, thus keeping the developments clustered and making less impact to the property. No earthwork or the removal of large trees are required to prep the building pad and make room for the new building.

3.2 Stream Flooding

The building footprint is elevated approximately 10 feet above the nearest section of waterway and given the width of the Fourmile Creek stream valley upgradient of the site, does not appear to be in an area prone to stream flooding. No evidence of historical flooding (such as, woody debris, driftwood logs, or silty flood deposits) was observed within 240 feet of the site. Based on the existing site grades, stormwater runoff is directed away from the building footprint such that no significant grading will be required to provide positive surface drainage. The hazard posed to the development as a result of stream flooding is, therefore, considered very low.

3.3 Wind Erosion and Deposition

The ground surfaces in the immediate vicinity of the parcel and proposed building site lack evidence of active eolian (wind-driven) transport, such as, unvegetated sand accumulations, active dune formation and migration, or ablation surfaces. Our review of aerial imagery dating back to 1994 indicates that the active foredune and backdune has encroached very little, if at all, into the Fourmile Creek waterway. The hazard posed to the development from wind erosion and deposition is, therefore, considered negligible. There is, therefore, no need for temporary and/or permanent dune stabilization or maintenance of new and existing vegetation.

3.4 Liquefaction

Liquefaction is the sudden loss of soil shear strength due to a rapid increase of soil pore water pressures caused by strong ground shaking during large seismic events. In simple terms, a liquefied soil acts more like a fluid than a solid when shaken during an earthquake. For liquefaction to occur, the following are typically needed:

- non-cohesive granular soils (such as, poorly graded sand and silty sand),
- a shallow groundwater table, and
- low density granular soils typically associated with young geologic deposits.

The near-surface earth materials underlying the site are assumed to meet the criteria stated above. Therefore, the adverse effects from liquefaction occurring at the site would be expected to include localized ground settlement, ground cracking and expulsion of water and sand, the partial loss of soil bearing used to support load building loads, and amplification of seismic shaking.

All portions of the site are interpreted to be underlain by alluvium composed of dune and stream sediments, which in turn is underlain by older marine terrace sediments. Geologic materials most



susceptible to liquefaction are geologically recent sand- and silt-rich deposits, located adjacent to streams, rivers, bays, or ocean shorelines, like those at the site in the shallow subsurface, which are presumably below the water table. The interpreted geologic age of the site's sediments suggests a likelihood that liquefaction would occur as a result of strong seismic ground shaking. However, the possibility of building collapse and loss of life is considered low provided the building is of metal-frame construction and founded on a reinforced concrete slab-on-grade foundation as intended by the site owners.

3.5 Tsunami Inundation

Based on the most recent Tsunami Inundation Maps made publicly available by the Oregon Department of Geology and Mineral Industries (DOGAMI), the project site lies within the tsunami inundation and wave run-up zone for both local-source and great magnitude distant-source events. Given the uncertainty in predicting tsunami wave run-up heights, the low-lying elevation of the site (20 feet), and the proximity to the coastline, tsunami inundation should be expected to occur at this site as a result of a great subduction earthquake along the Cascadia subduction zone located less than 45 miles offshore. Design and construction to mitigate the effects of tsunami inundation is economically unfeasible and considered unwarranted for an accessory structure of the type and intended use being proposed for the site.

4.0 Conclusions

Based on our field observations and desktop review of potential geologic hazards, we conclude that the proposed development may be sited and constructed as intended so as to not be subject to unreasonable risk from the natural hazards common to the local area. We further conclude that development of the site with a metal building to serve as a detached garage (accessory structure) is not expected to have any adverse effects on the site and adjacent areas.

Temporary and/or permanent dune stabilization programs are not required, and the planned construction will not require methods for protecting the surrounding area from any adverse effects of the development. Lastly, it is our professional opinion that the potential hazard to life, public and private property, and the natural environment that may be caused by the proposed use is considered remote.

5.0 Closure and Limitations

The findings contained in this report are based on site conditions that we observed at the time of our investigation, our current understanding of proposed project elements, and our experience with similar projects in similar geologic environments. We have assumed that the information obtained from our reconnaissance-level site investigation and desktop review is representative of conditions throughout the areas of proposed development addressed in this report.



The conclusions presented in this report are professional opinions derived in accordance with current standards of professional practice and are tendered on the assumption that design of the improvements will conform to their intent. No representation, express or implied, of warranty or guarantee is included or intended.

The field work was conducted to investigate the site characteristics specifically addressed by this report. Assumptions about other site characteristics, such as, hazardous materials contamination, or environmentally sensitive or culturally significant areas, should not be made from this report.

Please call me at (707) 441-8855 if you have any comments or concern regarding this report.

Respectfully,

SHN

Giovanni A. Vadurro, E 2385

Engineering Geologist

GAV:lam

