

ISA Basic Tree Risk Assessment Form

Client Dennis & Debbie Engelhard	Date <u>8/1</u>	5/24	Tin	ne <u>2:00</u>	PM	
Address/Tree location 4824 San Antonio Ct. NE Salem, OR 97305	Tre	e no	1	_ Sheet <u>1</u>	of	_2_
Tree species Giant Sequoia (Sequoia sempervirens) dbh_	60" Height 90	<u>'</u>	Crown spr	ead dia	25'	
Assessor(s) William L. Fargo Tools	used DBH Tape		Time	frame	10 year	rs
Target A	ssessment					
Target description	Target protection		Target within au 1.5 x Ht.	Occupancy rate 1-rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
1 House	None	Х		4	No	No
2 Occupants	None	×		3	No	No
3						
4						
Site F	actors					A
Vigor Low □ Normal ☒ High □ Foliage None (seasonal) □ None (seasonal) □ Pests / Biotic Boring insects Species failure profile Branches □ Trunk □ Roots ☒ Describe Shallow	Pavement over roots Pavement over roots Pavement over roots Pavement over roots Pavement over roots Graph of the control of the control over roots Graph	% Descri Describe% Chl	orotic	tached repo	ort	
Unbalanced crown ☑ LCR 100 %	ffecting the Likelihood of F d Branches — Cracks					
Dead twigs/branches ☑ 10 % overall Max. dia. 2" Broken/Hangers Number Max. dia. □ Over-extended branches □ Pruning history Crown cleaned ☑ Thinned □ Raised ☑ Reduced □ Topped □ Lion-tailed □ Flush cuts □ Other	Weak attachments □ Previous branch failures □ Dead/Missing bark ☑ Can	l kers/Galls/Bu eartwood de	Cavi	ity/Nest hole ilar branches wood damag	% o present ge/deca	circ. t □ ny⊠
Condition(s) of concern					
Crown weight compunds tree lean Part Size Fall Distance Load on defect N/A □ Minor □ Moderate □ Significant ☒ Likelihood of failure Improbable □ Possible ☒ Probable □ Imminent □	Part SizeN/A [Load on defect N/A [Likelihood of failure Impro] Mi	nor 🗆 M	stancesloderate □ Sobable □ II	ignifican	nt 🗵
—Trunk —	√ — Roo	ts and Re	oot Col	lar —		
Dead/Missing bark □ Abnormal bark texture/color □ Codominant stems □ Included bark □ Cracks □ Sapwood damage/decay □ Cankers/Galls/Burls □ Sap ooze □ Lightning damage □ Heartwood decay □ Conks/Mushrooms □ Cavity/Nest hole % circ. Depth Poor taper □ Lean _10 ° Corrected? Response growth Condition(s) of concern See attached report Part Size Fall Distance	Collar buried/Not visible Dead Ooze Cracks Cut/Damag Root plate lifting Response growth Condition (s) of concern .	Decay ed roots See attach	Distand ned report	Conks/Mus Cavity e from trun Soil we	% c k eakness	s Circ.
Load on defect N/A ☐ Minor ☐ Moderate ☐ Significant ☒ Likelihood of failure Improbable ☐ Possible ☐ Probable ☒ Imminent ☐	Load on defect N/A I Likelihood of failure Impro			loderate□ S obable 図 II	-	

Risk Categorization

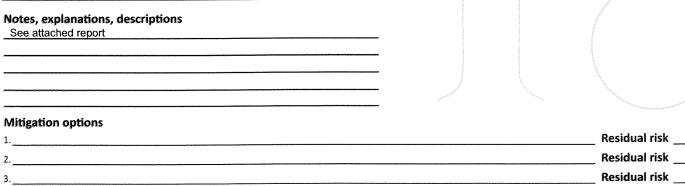
								Likel	ihoo	d									
Target		Condition(s)		Failu	ıre			lmp	act			ure &		pact 1)	Cor	nseq	uen	ces	
(Target number or description)	Tree part	of concern	Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	Risk rating (from Matrix 2)
House	Trunk and	Lean compounded by an imbalanced crown.			х					х			х					х	High
	canopy	Deteriorated and declining root stability.	W. 7.																
		Tool stability.																	
Occupants		Lean compounded by an			х				х			х						х	Mod
	Trunk and	imbalanced crown. Deteriorated and declining																	
	canopy	root stability.																	
					 -														
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Matrix I. Likelihood matrix.

Likelihood		Likelih	ood of Impact	
of Failure	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of	Consequences of Failure											
Failure & Impact	Negligible	Minor	Significant	Severe								
Very likely	Low	Moderate	High	Extreme								
Likely	Low	Moderate	High	High								
Somewhat likely	Low	Low	Moderate	Moderate								
Unlikely	Low	Low	Low	Low								



2 3							Residual risk Residual risk Residual risk
Overall tree risk rating		Low 🗆	Moderate □	High 🖾	Extreme		
Overall residual risk	None 🗆	Low 🗆	Moderate □	High 🗆	Extreme 🗆	Recommended inspection inter	val
Data ☑ Final ☐ Prelimin	ary Adva ı	nced asse	ssment neede	d ⊠No □	Yes-Type/Reas	on	
nspection limitations $ar{\mathbb{Z}}$	lNone □V	isibility []Access □Vine	es 🗆 Root	collar buried	Describe	

North



ISA Basic Tree Risk Assessment Form

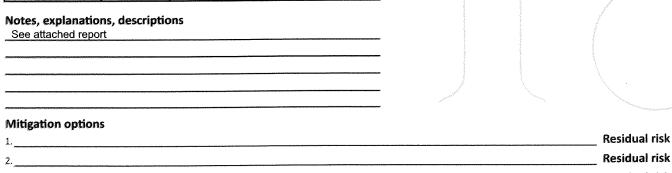
	Date8/15	24		Tin	ne 2:00	PM	
Address/Tree location 4824 San Antonio Ct. NE Salem. OR 97305							2
Tree species Giant Sequoia (Sequoia sempervirens) dbh 59"	Height90'		Crow	n spr	ead dia	20'	
Assessor(s) William L. Fargo Tools used DE							
Target Assessmen							
		Tai	rget zor	ie .			
Target description	Target protection		Target within 1 x Ht.		Occupancy rate 1-rare 2-occasional 3-frequent 4-constant	Practical to move target?	Restriction practical?
1 Neighbor's house, greenhouse and sheds	None		Х		4	No	No
2 Property owners	None	Х			3	No	No
3							
4							
Site Factors							
History of failures Lightning strike ~ 2014 Ice Storm ~ 2021 Trunk and branch failures	ures Topograph	y Flat□	l Slope	<u> </u>	%	Aspect	<u>W</u>
Site changes None ☐ Grade change ☑ Site clearing ☑ Changed soil hydrology ☒ Ro	oot cuts 🛛 Describe	See at	ttached	l repo	<u>rt</u>		
Soil conditions Limited volume ☒ Saturated ☒ Shallow ☒ Compacted ☒ Pavement	over roots 🗆	_% Des	cribe _	See at	tached repo	ort	
Prevailing wind direction \underline{WSW}_{-} Common weather Strong winds \Box Ice \Box Snow	☐ Heavy rain☐ D	escribe _.					
Tree Health and Species							
Vigor Low ☑ Normal ☐ High ☐ Foliage None (seasonal) ☐ None (dead Pests/Biotic Boring insects	d)□ Normal <u>8(</u> Lightning damage	_% C	hlorot	ic <u>10</u>	% Ne	crotic _	<u>10</u> %
Species failure profile Branches ☐ Trunk ☐ Roots ☒ Describe Shallow, intertwin	ning roots						
Load Factors							
Wind exposure Protected ☐ Partial ☒ Full ☐ Wind funneling ☐	Relati	ve crow	n size	Sma	II⊠ Mediu	m 🗆 L	arge □
Crown density Sparse ☑ Normal ☑ Dense ☑ Interior branches Few ☑ Normal ☑	☐ Dense ☐ Vines/	Mistleto	e/Mo	ss 🗆 .			
Recent or expected change in load factors		ww.					
Tree Defects and Conditions Affecting the	ne Likelihood of Fai	lure					
— Crown and Branc	hes —						
1							١ ١
Unbalanced crown ☑ LCR 100 % Cracks	· 🗆				Lightning	damage	
Dead twigs/branches 🛚 10 % overall Max. dia. 2" Codor	i 🗆						
Dead twigs/branches ☑ 10 % overall Max. dia. 2" Codor Broken/Hangers Number Max. dia Weak					Includ	led bark	(□
Dead twigs/branches ☑ 10 % overall Max. dia. 2" Codor Broken/Hangers Number Max. dia. Weak Over-extended branches □ Previo	minant attachments attachm			_ Cav	Includity/Nest hole ilar branches	led bark % o present	circ.
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Dead twigs/branches ☑10% overall Max. dia2" Codor Broken/Hangers Number Max. dia Weak Over-extended branches □ Previous Pruning history Crown cleaned ☑ Thinned □ Raised ☑ Conks Reduced □ Topped □ Lion-tailed □ Conks	minant □ attachments □ ous branch failures □ 'Missing bark ☑ Canke i □ Hea	ers/Galls,	/Burls [Cavi	Includity/Nest hole ilar branches wood damag	led bark % c present ge/deca	circ.
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Dead twigs/branches ☑ 10 % overall Max. dia. 2" Codor Broken/Hangers Number	attachments attachments aus branch failures form of the series of the	able Decay D	/Burls E decay Minor Possible Root pth	Caving Simman Sapport	Includity/Nest hole ilar branches ilar branc	ded bark % of present ge/decan girdling girdling hrooms % o k	

				Risk Cate	egor	izat	on														
									1	Likel	ihoc	d									
Targe	et		C41	#(-)		Failu	ıre			lmp	act			ure &		pact 1)	Co	nseq	uen	ces	
(Target n or descrij	umber	Tree part	Condi of co	ncern	Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	Risk rating (from Matrix 2
Neighbor's	house,	Trunk and	Lean compour	an compounded by an palanced crown. teriorated and declining			x					х			х					х	High
greenhous	e and	canopy		teriorated and declining																	
sheds																					
Property of	owners		Lean compou	unded by an			х				х			х						х	Mod
		Trunk and canopy	imbalanced of Deteriorated root stability.	and declining											-						
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<i>Natrix I .</i> Likel	ihood matr	ix.												1							<u> </u>
Likelihood of Impact																		-			-
of Failure	Very low	Low	Medium	High								Name of the last			100000			ĺ	Ì		
Imminent	Unlikely	Somewhat likely	Likely											·							-t

Likelihood		Likelih	ood of Impact	
of Failure	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of	Consequences of Failure											
Failure & Impact	Negligible	Minor	Significant	Severe								
Very likely	Low	Moderate	High	Extreme								
Likely	Low	Moderate	High	High								
Somewhat likely	Low	Low	Moderate	Moderate								
Unlikely	Low	Low	Low	Low								



1.							_ NCJIGGGI IIJN
2							Residual risk
3							Residual risk
4,							_ Residual risk
Overall tree risk rating		Low 🗆	Moderate 🗆	High 🛛	Extreme 🗆		
Overall residual risk	None 🛘	Low 🗆	Moderate □	High 🗆	Extreme 🛘	Recommended inspection inte	erval
Data ⊠Final □ Prelimir	nary Adva	nced asse	ssment neede	d ⊠No □	Yes-Type/Reas	on	
Inspection limitations	aNone □Vi	isibility []Access □Vine	es 🗆 Root	collar buried	Describe	

North



ISA Basic Tree Risk Assessment Form

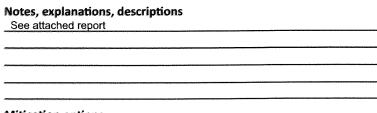
Client Denni	s & Debbie Engelhard			Date 8	3/15/24		Tin	ne 2:00	РМ	
Address/Tree	e location <u>4824 San Antonio Ct. NE Sa</u>	alem, OR 97305		7	ree no	3		Sheet1	of	2
Tree species	Giant Sequoia (Sequoia sempervirens)	dbh39	9"	Height	90'	Crow	ın spr	ead dia	25'	
Assessor(s) _	William L. Fargo	Tools us	ed <u>DBH</u>	Таре			Time	e frame	10 yea	rs
		Target Asse	essment							
Target number	Target description			Target protecti	e th	Target within 1x Ht.	Target within 6 1.5 x Ht.	Occupancy rate 1-rare 2-occasional 3-frequent 4-constant	Practical to move target?	Restriction practical?
1 Neigh	bor's house			None	X			4	No	No
2 Neigh	bors			None	X			3	No	No
3										<u> </u>
4										<u> </u>
	ures Lightning strike ~ 2014 Ice Storm	Site Fact								
Prevailing win Vigor Low Pests/Biotic_ Species failure Wind exposu Crown densit	Stimited volume ☑ Saturated ☑ Shallond direction ☑ Sommon weather Normal ☐ High ☐ Foliage Normon insects Profile Branches ☐ Trunk ☐ Roots ☑ Profile Protected ☐ Partial ☑ Full ☐ Windows Sparse ☐ Normal ☑ Dense ☐ Interpreted Change in load factors ☐ See attacts	r Strong winds	I Snow ☐ Species P ne (dead) I sioticLig intertwinin ctors	Heavy rain ☐ rofile ☐ Normal <u>8</u> ghtning damage g roots Re	Describe	Chloroti wn size	ic <u>5</u>	% Nediu	crotic _	15 % arge C
, timbedees		s and Conditions Affe — Crown and E	Branche	es —				Lightning	damage	
Broken/Ha	aded branches ☐ istory aned ☑ Thinned ☐ ☐ Topped ☐	Max. dia Raised ⊠ Lion-tailed □	Codomii Weak at Previous Dead/M Conks E]	□ ankers/Galls Heartwood	/Burls C	Cavi Simi Sap	Includity/Nest hole ilar branches wood damag	led bark % o present ge/deca	k 🗆 circ. t 🗆 y 🗆
	See les les les les les les les les les l	Condition (s) o	of concern			***************************************				
	Crown weight compunds tree lean Fall Distance		Part Size	2			Fall Di	stance		
Load on de		rate□ Significant 🛛	Load on		40	Minor	□м	oderate□ S	ignifican	nt 🗵
	—Trunk —			— Ro	ots and	Root	Col	lar —		
Codomina Sapwood Lightning Cavity/Ne Lean 10 Response Condition	Abnormal ba ant stems Included bark damage/decay Cankers/Galls/Burls damage Heartwood decay Corest hole% circ. Depth growth (s) of concern See attached report Fall Distance	Poor taper	Dead [Ooze [Cracks [Root pla Respons Condition	3	Decay D	XI D	eport)	Conks/Mus Cavity [] e from trun Soil we	% (k eakness	s 🗆 circ. s 🖾
Load on de		rate□ Significant 🛛	Load on		A 🗆	Minor	ОΜ	oderate 🗆 S	ignifican	nt 🗵

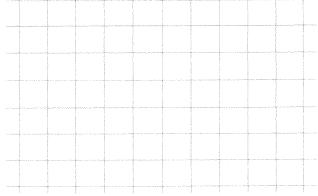
Risk Categorization																					
				Risk Cat	egor	izat	ion														
										Likel	ihoo	od									ĺ
Targe	et		Condi	rian(a)		Fail	ıre			lmp	act			ure &	,		Coı	nseq	uen	ces	
(Target n or descri	umber	Tree part	1	of concern		Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	Risk rating (from Matrix 2)
Neighbor's	house.	-	Lean compou	nded by an			х					х			х					х	High
		Trunk and canopy		imbalanced crown. Deteriorated and declining						Г											
			root stability.		lacksquare															П	
Neighbors	S		Lean compou	unded by an			х				x					х				х	Mod
		Trunk and	imbalanced of	rown. and declining																	
		canopy	root stability.	and dooming					l				T							П	
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Matrix I . Likel	lihood matr	ix.						<u>†</u>			-			ļ			,				-
Likelihood		Likelih	ood of Impact											-							
of Failure	Very low	Low	Medium	High								4									
Imminent	Unlikely	Somewhat likely	Likely	Very likely	_									1				1			1
Probable	Unlikely	Unlikely	Somewhat likely	Likely	_						ļ			ļ	<u> </u>			<u>.</u>		_,	ļ
Possible	Unlikely	Unlikely	Unlikely	Somewhat like	ely																
Improbable	Unlikely	Unlikely	Unlikely	Unlikely							4			<u> </u>							

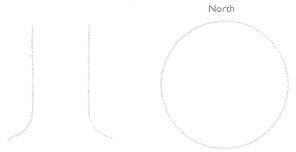
Likelihood of Failure	Likelihood of Impact				
	Very low	Low	Medium	High	
Imminent	Unlikely	Somewhat likely	Likely	Very likely	
Probable	Unlikely	Unlikely	Somewhat likely	Likely	
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely	
Improbable	Unlikely	Unlikely	Unlikely	Unlikely	

Matrix 2. Risk rating matrix.

Likelihood of	Consequences of Failure				
Failure & Impact	Negligible	Minor	Significant	Severe	
Very likely	Low	Moderate	High	Extreme	
Likely	Low	Moderate	High	High	
Somewhat likely	Low	Low	Moderate	Moderate	
Unlikely	Low	Low	Low	Low	







Residual risk	
Residual risk	
Residual risk	
Residual risk	
Recommended inspection interval	