Initial Evaluation Procedure (IEP) Assessment - Completed for Hutt City Council

Page 1

WARNING!! This initial evaluation has been carried out solely as an initial seismic assessment of the building following the procedure set out in the "The Seismic Assessment of Existing Buildings" Technical Guidelines for Engineering Assessments, July 2017. This spreadsheet must be read in conjunction with the limitations set out in the accompanying report, and should not be relied on by any party for any other purpose. Detailed inspections and engineering calculations, or engineering judgements based on them, have not been undertaken, and these may lead to a different result or seismic grade.

Street Number & Name:	53 Farmer Crescent	Job No.:	5-C3957.00
AKA:		By:	GSF
Name of building:	Pomare-Taita Community House	Date:	21/08/2019
City:	Taita, Hutt City	Revision No.:	0

Table IEP-1 Initial Evaluation Procedure Step 1

Step 1 - General Information

1.1 Photos (attach sufficient to describe building)



1.2 Sketches (plans etc, show items of interest)

Blue - constructed 1960
Red - constructed 1991

PRE SCHOOL CONTROL CON

1.3 List relevant features (Note: only 10 lines of text will print in this box. If further text required use Page 1a)

Structure: Timber framed with modern Gib wall linings and timber weatherboard cladding

Foundations: Piles, anchor plies included in 1990 extension

Roof: Lightweight timber with lightweight cladding

Subsoil: C shallow soils - NZS1170.5:2004 Site Subsoil Classification of Lower Hutt

Construction Date: 1960 and 1991, altered in 2015

1.4 Note information sources	
------------------------------	--

Tick as appropriate

Visual Inspection of Exterior Visual Inspection of Interior Drawings (note type)

$\overline{\mathbf{v}}$	
\overline{V}	

Specifications Geotechnical Reports Other (list)

Information Reviewed: 1990 drawings and 2015 drawings

AKA: lame of buildir city: Table IEP-2	ng:	Pomare-Taita Com			By:	GSF
City:	ıy.	Fullare-Taila Comi	nunity Hauca	Pomoro Taita Community House		
able IEP-2		Taita, Hutt City	namy nouse		Date: Revision N	21/08/2019 o.: 0
	Initial Ev	aluation Procedure	Step 2			
tep 2 - Deteri	mination of <i>(</i> 9		·			
, ,	•	ilding - refer Section B5) S) = (%NBS)_{nom}		Longitu	<u>udinal</u>	<u>Transverse</u>
a) Building Str	engthening Data	a				
Tick if build	ding is known to	have been strengthened in thi	s direction			
If strengthe	ened, enter perc	entage of code the building ha	s been strengthened	to N/	A	N/A
b) Year of Design	gn/Strengthenin	g, Building Type and Seismi	c Zone			
				Pre 1935	$\overline{}$	Pre 1935 O
				1935-1965 1965-1976		1935-1965 ⑥ 1965-1976 ⑥
				1976-1984		1965-1976 () 1976-1984 ()
				1984-1992	$\overset{\circ}{\circ}$	1984-1992
				1992-2004	1 0	1992-2004
				2004-2011 Post Aug 2011		2004-2011 () Post Aug 2011 ()
			5 –			
			Building Type: Seismic Zone:	Others Not an	plicable	Others Not applicable
c) Soil Type			Ocisinio Zone.	Not up	piloabic	тог арричале
	m NZS1170.5:20	·		C Shallow Soil	•	C Shallow Soil
	m NZS4203:199: 1992 to 2004 ar	2, Cl 4.6.2.2 : ad only if known)		Not ap	plicable	Not applicable
d) Estimate Pe Comment:	riod, <i>T</i>			$h_n = 4$.	2	4.2 m
Timber fram	nes			$A_{c} = 1.0$		1.00 m ²
Momont Ro	esisting Concrete	Eromoo:	770 (O OO b 0.75 O d)			
	esisting Concrete esisting Steel Fra		max{0.09 $h_n^{0.75}$, 0.4} max{0.14 $h_n^{0.75}$, 0.4}	0		0
Eccentricall	ly Braced Steel F	rames: T =	max{0.08 <i>h</i> _n 0.75 , 0.4}	ŏ		Ŏ
All Other Fr Concrete Sl	rame Structures:		max $\{0.06h_n^{0.75}, 0.4\}$ max $\{0.09h_n^{0.75}/A_c^{0.5}, 0.4\}$	•		©
Masonry Sh			0.4sec	○ ● ○		0 • 0
•	ed (input Period):	_		ŏ		ŏ
		= height in metres from the base of the task to the seismic weight or mass.	ne structure to the	T: 0.4	10	0.40
	ирренноѕ	i solamo wolghi oli mass.		1. 0.2		0.40
e) Factor A:	Strengthening factor	or determined using result from (a) ab	ove (set to 1.0	Factor A: 1.0	00	1.00
f) Factor B:	if not strengthened			Factor B: 0.0		0.04
g) Factor C:	results (a) to (e) ab	ove crete buildings designed between 197	6-84 Factor	Factor C: 1.0		1.00
h) Factor D:		ned prior to 1935 Factor D = 0.8 exce		Factor D: 1.0		1.00
	and Napier (1931-1 take as 1.0.	935) where Factor D may be taken a	s 1.U, otherwise			
(%NBS) _{nom} = 1	AxBxCxD		((%NBS) _{nom} 49	%	4%

WARNING!! This initial evaluation has been carried out solely as an initial seismic assessment of the building following the procedure set out in "The Seismic Assessment of Existing Buildings" Technical Guidelines for Engineering Assessments, July 2017. This spreadsheet must be read in conjunction with the limitations set out in the accompanying report, and should not be relied on by any party for any other purpose. Detailed inspections and engineering calculations, or engineering judgements based on them, have not been undertaken, and these may lead to a different result or seismic grade.

treet Number & Name:	53 Farmer Cres	cent		Job No.:	5-C3957.00	
KA:				By:	GSF	
ame of building:		community House		Date:	21/08/2019	
ty:	Taita, Hutt City			Revision No.:	0	
	valuation Proced	ure Step 2 conti	nued			
2 Near Fault Scaling Facto If $T \le 1.5$ sec, Factor E =			Longitu	dinal	<u>Transverse</u>	
			Longitu	<u>umai</u>	<u>ITAIISVEISE</u>	
a) Near Fault Factor, N(T,D)			N(T,D): 1		1	
(from NZS1170.5:2004, CI 3.1.6)						
b) Factor E		= 1/N(T,D)	Factor E: 1.0	00	1.00	
3 Hazard Scaling Factor, F	actor F					
a) Hazard Factor, <i>Z,</i> for site Locat	tion: Hutt Valley-south of Tait	ta Gorge Refer	right for user-defined	locations		
	Z = 0.4	(from NZS1170.5:2004, Ta	ble 3.3)			
Z	11992 = 1.2		or from accompanying Figure	3.5(b))		
	2004 = 0.4	(from NZS1170.5:2004, Ta				
b) Factor F		_				
For pre 1992	=	1/ <i>Z</i>				
For 1992-2011	=	Z ₁₉₉₂ /Z Z ₂₀₀₄ /Z				
For post 2011	=	∠ 2004/ ∠	Factor F: 2.5	50	2.50	
			2.0		2.00	
(Set to 1 if not known. For buildings d building set to 1.25. For buildings des building set to 1.33 for Zone A or 1.2 b) Design Risk Factor, Ro	signed 1965-1976 and known to I	be designed as a public	I = 1		1	
(set to 1.0 if other than 1976-2004, o	or not known)		$R_0 = \boxed{1}$		1	
(set to 1.0 if other than 1976-2004, of c) Return Period Factor, R	or not known)				1	
	,	Choose Importance L		O3 O4	1	0
c) Return Period Factor, R	,	Choose Importance L	,		1 • 2 • 3 1.0	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp	,	<u>Choose Importance L</u> IR _o /R	. <u>evel</u>			0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp	portance Level)		. <u>evel</u>	0		0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor,	portance Level) = Factor H	IR₀/R	<u>.evel</u>	0	1.0	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duc Comment:	Factor H ctility Within Existing St	IR₀/R	<u>.evel</u>	00	1.0	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duc	Factor H ctility Within Existing St	IR₀/R	R = 1.0 Pactor G: 1.0	00	1.00	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duc Comment:	Factor H ctility Within Existing St	IR _o /R	R = 1. Factor G: 1.0 $\mu = 2.0$	00	1.00 2.00	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duccomment: Lightweight timber, Gib line	For pre 1976 (maxis	IR _o /R	Factor G: 1.0 $\mu = \frac{2.0}{1.5}$	00	1.00	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duc Comment: Lightweight timber, Gib line b) Factor H	For pre 1976 (maxis For 1976 onwards	IR _o /R ructure mum of 2)	R = 1. Factor G: 1.0 $\mu = 2.0$	00	1.00 2.00	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Ducton Comment: Lightweight timber, Gib line b) Factor H (where kμ is NZS1170.5:2004 Inelast	Factor H ctility Within Existing Streed bracing walls For pre 1976 (maximum for 1976 onwards) stic Spectrum Scaling Factor, fro	IR _o /R ructure mum of 2) m accompanying Table 3.3)	Factor G: 1.0 $\mu = \frac{2.0}{1.5}$ $= \frac{1.5}{1.5}$	00	1.00 2.00 k _µ 1.57 1	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duc Comment: Lightweight timber, Gib line b) Factor H (where kµ is NZS1170.5:2004 Inelast	Factor H ctility Within Existing Streed bracing walls For pre 1976 (maxing For 1976 onwards) stic Spectrum Scaling Factor, fro	IR _o /R ructure mum of 2) m accompanying Table 3.3)	Factor G: 1.0 $\mu = \frac{2.0}{1.5}$ $= \frac{1.5}{1.5}$	00	1.00 2.00 k _µ 1.57 1	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duc Comment: Lightweight timber, Gib line b) Factor H (where kµ is NZS1170.5:2004 Inelas	Factor H ctility Within Existing Streed bracing walls For pre 1976 (maxing For 1976 onwards) stic Spectrum Scaling Factor, fro Scaling Factor, Factor ctor, Sp	IR _o /R ructure mum of 2) m accompanying Table 3.3)	Factor G: 1.0 $\mu = \frac{2.0}{1.5}$ Factor H: 1.5	00	1.00 2.00 k _μ 1.57 1 1.57	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duccomment: Lightweight timber, Gib line b) Factor H (where kµ is NZS1170.5:2004 Inelast 6 Structural Performance Sa a) Structural Performance Fac (from accompanying Figure 3.4)	Factor H ctility Within Existing Streed bracing walls For pre 1976 (maxing For 1976 onwards) stic Spectrum Scaling Factor, fro Scaling Factor, Factor ctor, Sp	IR _o /R ructure mum of 2) m accompanying Table 3.3)	Factor G: 1.0 $\mu = \frac{2.0}{1.5}$ $\mu = \frac{1.5}{1.5}$ Factor H: 1.5	00	1.00 2.00 k_{μ} 1.57 1 1.57	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duc Comment: Lightweight timber, Gib line b) Factor H (where kµ is NZS1170.5:2004 Inelast 6 Structural Performance Sa) Structural Performance Fac (from accompanying Figure 3.4) Tick if light timber-framed co	Factor H ctility Within Existing Streed bracing walls For pre 1976 (maxing For 1976 onwards) Stic Spectrum Scaling Factor, from Scaling Factor, Factor ector, Spectrum in this direction aling Factor	IR _o /R ructure mum of 2) m accompanying Table 3.3) I = 1/S _p	Factor G: 1.0 $\mu = 2.0$ Factor H: 1.5	00	1.00 2.00 k _μ 1.57 1 1.57	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duccomment: Lightweight timber, Gib line b) Factor H (where kµ is NZS1170.5:2004 Inelast 6 Structural Performance Sa (from accompanying Figure 3.4) Tick if light timber-framed co b) Structural Performance Scale (from accompanying Figure 3.4) Tick if light timber-framed co b) Structural Performance Scale Note Factor B values for 1992 to 20 7 Baseline %NBS for Build	Factor H ctility Within Existing Streed bracing walls For pre 1976 (maxing For 1976 onwards) Stic Spectrum Scaling Factor, from the scaling Factor, Factor for the scaling Factor, Factor for the scaling Factor in this direction aling Factor aling Factor (004 have been multiplied by 0.67) ding, (%NBS)	IR _o /R ructure mum of 2) m accompanying Table 3.3) I = 1/S _p	Factor G: 1.0 $\mu = 2.0$ $\mu = 2.0$ $S_p = 0.5$ Factor I: 2.0	00	1.00 2.00	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Ducton Comment: Lightweight timber, Gib line b) Factor H (where kµ is NZS1170.5:2004 Inelast a) Structural Performance Sa (from accompanying Figure 3.4) Tick if light timber-framed co	Factor H ctility Within Existing Streed bracing walls For pre 1976 (maxing For 1976 onwards) Stic Spectrum Scaling Factor, from the scaling Factor, Factor for the scaling Factor, Factor for the scaling Factor in this direction aling Factor aling Factor (004 have been multiplied by 0.67) ding, (%NBS)	IR _o /R ructure mum of 2) m accompanying Table 3.3) I = 1/S _p	Factor G: 1.0 $\mu = 2.0$ Factor H: 1.5	00	1.00 2.00	0
c) Return Period Factor, R (from NZS1170.0:2004 Building Imp d) Factor G 5 Ductility Scaling Factor, a) Available Displacement Duc Comment: Lightweight timber, Gib line b) Factor H (where kµ is NZS1170.5:2004 Inelast 6 Structural Performance Sa (from accompanying Figure 3.4) Tick if light timber-framed co b) Structural Performance Scal (from accompanying Figure 3.4) Tick if light timber-framed co Note Factor B values for 1992 to 20 7 Baseline %NBS for Build	Factor H ctility Within Existing Streed bracing walls For pre 1976 (maxing For 1976 onwards) Stic Spectrum Scaling Factor, from the scaling Factor, Factor for the scaling Factor, Factor for the scaling Factor in this direction aling Factor aling Factor (004 have been multiplied by 0.67) ding, (%NBS)	IR _o /R ructure mum of 2) m accompanying Table 3.3) I = 1/S _p	Factor G: 1.0 $\mu = 2.0$ $\mu = 2.0$ $S_p = 0.5$ Factor I: 2.0	00	1.00 2.00	0

itial Evaluation Proc	,					
reet Number & Name: (A:	53 Farmer Cresce	nt		Jo B	ob No.:	5-C3957.00 GSF
me of building:	Pomare-Taita Con	nmunity House			y. ate:	21/08/2019
y:	Taita, Hutt City			R	evision No.:	0
ble IEP-3 Initial E	Evaluation Procedur	e Step 3				
ep 3 - Assessment of Perfer Appendix B - Section B3.2		nt Ratio (PAR)				
Longitudinal Direction						
potential CSWs		Effect on Struct				Fact
Plan Irregularity		(Choose a value -	Do not interpo	olate)		
Effect on Structural Perform Comment: Nil	nance O Severe	⊖ s	ignificant			Factor A 1.0
Vertical Irregularity						
Effect on Structural Perform	nance O Severe	⊖ S≀	ignificant		Insignificant	Factor B 1.0
Comment: Nil						
Short Columns Effect on Structural Perform	nance 🔿 Severe	<u>~ 9</u>	ignificant		Insignificant	Factor C 1.0
Comment: Nil	lance Severe	() 3/	griiicani		• Irisigiilicant	1 actor C1.0
	he building has a frame stru				ect of pounding	
	he building has a frame stru ing the coefficient to the rig	ht of the value appl	icable to frame	e buildings.		
	ing the coefficient to the rig	ht of the value appl	icable to frame]
may be reduced by taki	ing the coefficient to the rig	ht of the value appli Fact Separation	or D1 For Lo Severe 0 <sep<.005h< td=""><td>ngitudinal Dire Significant .005<sep<.01h< td=""><td>ection: 1.0 Insignificant Sep>.01H</td><td>]</td></sep<.01h<></td></sep<.005h<>	ngitudinal Dire Significant .005 <sep<.01h< td=""><td>ection: 1.0 Insignificant Sep>.01H</td><td>]</td></sep<.01h<>	ection: 1.0 Insignificant Sep>.01H]
may be reduced by taki	ing the coefficient to the rig	ht of the value appli Fact Separation	or D1 For Lo	ngitudinal Dire	ection: 1.0	
may be reduced by taking the second s	ing the coefficient to the rig	Fact Separation 0% of Storey Height	or D1 For Lo Severe 0 <sep<.005h< td=""><td>ngitudinal Dire Significant .005<sep<.01h< td=""><td>ection: 1.0 Insignificant Sep>.01H</td><td></td></sep<.01h<></td></sep<.005h<>	ngitudinal Dire Significant .005 <sep<.01h< td=""><td>ection: 1.0 Insignificant Sep>.01H</td><td></td></sep<.01h<>	ection: 1.0 Insignificant Sep>.01H	
may be reduced by taking the second s	of Factor D1 Alignment of Floors within 20	Fact Separation 0% of Storey Height	or D1 For Lo Severe 0 <sep<.005h< td=""><td>ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H</td><td></td></sep<.01h<></td></sep<.005h<>	ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H</td><td></td></sep<.01h<>	Insignificant Sep>.01H	
Table for Selection of Aligonal Aligona	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 t Difference Effect	Fact Separation 0% of Storey Height	or D1 For Lo Severe 0 <sep<.005h 0.4="" 1="" d2="" for="" lo<="" or="" td=""><td>ngitudings. ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8</td><td></td></sep<.01h<></td></sep<.005h>	ngitudings. ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8</td><td></td></sep<.01h<>	Insignificant Sep>.01H 1.0 0.8	
Table for Selection Ali	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 t Difference Effect	Fact Separation 0% of Storey Height	or D1 For Lo Severe 0 <sep<.005h 0.4<="" 1="" td="" ①=""><td>ngitudings. ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1 0 0.8</td><td></td></sep<.01h<></td></sep<.005h>	ngitudings. ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1 0 0.8</td><td></td></sep<.01h<>	Insignificant Sep>.01H 1 0 0.8	
Table for Selection of Aligonal Aligona	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 t Difference Effect Of Factor D2 Height Diffe	Fact Separation 0% of Storey Height 0% of Storey Height Fact	or D1 For Lo Severe 0 <sep<.005h 0.4="" 0.4<="" 0<sep<.005h="" 1="" d2="" for="" lo="" or="" severe="" td="" ①="" ○=""><td>ngitudings. ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1 0 0.8 Dection: 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1 1.0 1 1 1 1</td><td></td></sep<.01h<></td></sep<.005h>	ngitudings. ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1 0 0.8 Dection: 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1 1.0 1 1 1 1</td><td></td></sep<.01h<>	Insignificant Sep>.01H 1 0 0.8 Dection: 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1.0 1 1 1.0 1 1 1 1	
Table for Selection of Aligonal Aligona	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 t Difference Effect Of Factor D2 Height Difference Height Difference Height Difference Differen	Fact Separation 0% of Storey Height 0% of Storey Height Fact erence > 4 Storeys rence 2 to 4 Storeys	or D1 For Lo Severe 0 <sep<.005h 0="" 0.4="" 0<sep<.005h="" 1="" 10.4<="" 3evere="" d2="" for="" lo="" or="" severe="" td=""><td>ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 0.8 1.0 1.0 1.0 1.0 1.0 1.0 1</td><td></td></sep<.01h<></td></sep<.005h>	ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 0.8 1.0 1.0 1.0 1.0 1.0 1.0 1</td><td></td></sep<.01h<>	Insignificant Sep>.01H 0.8 1.0 1.0 1.0 1.0 1.0 1.0 1	
Table for Selection (Aligorian December 2) Comment: Nil b) Factor D2: - Height	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 t Difference Effect Of Factor D2 Height Difference Height Difference Height Difference Differen	Fact Separation 0% of Storey Height 0% of Storey Height Fact	or D1 For Lo Severe 0 <sep<.005h 0.4="" 0.4<="" 0<sep<.005h="" 1="" d2="" for="" lo="" or="" severe="" td="" ①="" ○=""><td>ngitudings. ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8 Continuous 1.0 Insignificant Sep>.01H Insignificant Sep>.01H</td><td></td></sep<.01h<></td></sep<.005h>	ngitudings. ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8 Continuous 1.0 Insignificant Sep>.01H Insignificant Sep>.01H</td><td></td></sep<.01h<>	Insignificant Sep>.01H 1.0 0.8 Continuous 1.0 Insignificant Sep>.01H Insignificant Sep>.01H	
Table for Selection (Aligorian Decision of Table for Selection of Ta	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 t Difference Effect Of Factor D2 Height Difference Height Difference Height Difference Differen	Fact Separation 0% of Storey Height 0% of Storey Height Fact erence > 4 Storeys rence 2 to 4 Storeys	or D1 For Lo Severe 0 <sep<.005h 0="" 0.4="" 0<sep<.005h="" 1="" 10.4<="" 3evere="" d2="" for="" lo="" or="" severe="" td=""><td>ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8 Continuous 1.0 Insignificant Sep>.01H Insignificant Sep>.01H</td><td></td></sep<.01h<></td></sep<.005h>	ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8 Continuous 1.0 Insignificant Sep>.01H Insignificant Sep>.01H</td><td></td></sep<.01h<>	Insignificant Sep>.01H 1.0 0.8 Continuous 1.0 Insignificant Sep>.01H Insignificant Sep>.01H	
Table for Selection (Alignment: Nil b) Factor D2: - Height Table for Selection (Comment: Nil	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 It Difference Effect Of Factor D2 Height Difference Heigh	Fact Separation 0% of Storey Height 0% of Storey Height Fact erence > 4 Storeys rence 2 to 4 Storeys fference < 2 Storeys	or D1 For Lo Severe 0 <sep<.005h 0="" 0.4="" 0.7="" 0<sep<.005h="" 1="" 1<="" d2="" for="" lo="" or="" severe="" td=""><td>ngitudings. ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8 Pection: 1.0 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.0 1 1 1 1 1</td><td>Factor D 1.0</td></sep<.01h<></td></sep<.005h>	ngitudings. ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8 Pection: 1.0 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.0 1 1 1 1 1</td><td>Factor D 1.0</td></sep<.01h<>	Insignificant Sep>.01H 1.0 0.8 Pection: 1.0 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.0 1 1 1 1 1	Factor D 1.0
Table for Selection (Alignment: Nil b) Factor D2: - Height Table for Selection (Comment: Nil	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 It Difference Effect Of Factor D2 Height Difference Heigh	Fact Separation 0% of Storey Height 0% of Storey Height Fact erence > 4 Storeys rence 2 to 4 Storeys fference < 2 Storeys	or D1 For Lo Severe 0 <sep<.005h 0="" 0.4="" 0.7="" 0<sep<.005h="" 1="" 1<="" d2="" for="" lo="" or="" severe="" td=""><td>ngitudings. ngitudinal Dire Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8 Pection: 1.0 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.0 1 1 1 1 1</td><td>Factor D 1.0</td></sep<.01h<></td></sep<.005h>	ngitudings. ngitudinal Dire Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1.0 0.8 Pection: 1.0 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.0 1 1 1 1 1</td><td>Factor D 1.0</td></sep<.01h<>	Insignificant Sep>.01H 1.0 0.8 Pection: 1.0 Insignificant Sep>.01H 1.0 Insignificant Sep>.01H 1.0 1 1 1 1 1	Factor D 1.0
Table for Selection of Aligonal Comment: Nil b) Factor D2: - Height Table for Selection of Comment: Nil Site Characteristics - State Effect on Structural Perform Comment: No impact on perform the comment of the co	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 It Difference Effect Of Factor D2 Height Difference Severe erformance	Fact Separation 0% of Storey Height 0% of Storey Height Fact erence > 4 Storeys rence 2 to 4 Storeys ference < 2 Storeys ference < 3 Storeys	or D1 For Lo Severe 0 <sep<.005h 0="" 0.4="" 0.7="" 0<sep<.005h="" 1="" 1.4="" d2="" for="" lo="" or="" par<="" particular="" severe="" structural="" td="" the=""><td>ngitudinal Directions Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1 0.8 1 0.8 1 0.8 1 0.8 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1</td><td>Factor D 1.0 Dective Factor E 1.0</td></sep<.01h<></td></sep<.005h>	ngitudinal Directions Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1 0.8 1 0.8 1 0.8 1 0.8 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1</td><td>Factor D 1.0 Dective Factor E 1.0</td></sep<.01h<>	Insignificant Sep>.01H 1 0.8 1 0.8 1 0.8 1 0.8 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Factor D 1.0 Dective Factor E 1.0
Table for Selection of Aligonal Comment: Nil b) Factor D2: - Height Table for Selection of Comment: Nil Comment: Nil Site Characteristics - State Effect on Structural Perform Comment: No impact on performance of the Comment of	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 It Difference Effect Of Factor D2 Height Difference Height Difference Height Difference Height Difference Height Difference Height Difference Severe Performance Severe Performance Height Difference Performance Performance Height Difference Performance Performan	Fact Separation 0% of Storey Height 0% of Storey Height Fact erence > 4 Storeys rence 2 to 4 Storeys ference < 2 Storeys ference < 3 Storeys	or D1 For Lo Severe 0 <sep<.005h 0="" 0.4="" 0.7="" 0<sep<.005h="" 1="" 1.4="" d2="" for="" lo="" or="" par<="" particular="" severe="" structural="" td="" the=""><td>ngitudinal Directors Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H 1 0.8 1 0.8 1 0.8 1 0.8 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1</td><td>Factor D 1.0</td></sep<.01h<></td></sep<.005h>	ngitudinal Directors Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H 1 0.8 1 0.8 1 0.8 1 0.8 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1</td><td>Factor D 1.0</td></sep<.01h<>	Insignificant Sep>.01H 1 0.8 1 0.8 1 0.8 1 0.8 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Factor D 1.0
Table for Selection of Aligonoment: Nil b) Factor D2: - Height Table for Selection of Selectio	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 It Difference Effect Of Factor D2 Height Difference Height Difference Height Difference Height Difference Height Difference Height Difference Severe Performance Severe Performance Height Difference Performance Performance Height Difference Performance Performan	Fact Separation 0% of Storey Height 0% of Storey Height Fact erence > 4 Storeys rence 2 to 4 Storeys ference < 2 Storeys action etc as it affects acterstics of the building	or D1 For Lo Severe 0 <sep<.005h 0="" 0.4="" 0.7="" 0<sep<.005h="" 1="" 1.4="" d2="" for="" in="" lo="" or="" particular="" severe="" structu<="" structural="" td="" the=""><td>ngitudinal Directions Significant .005<sep<.01h .005<sep<.01h="" 0.1="" 0.7="" 0.9="" directions="" from="" ngitudinal="" oerformance="" significant="" so<="" some="" td=""><td>Insignificant Sep>.01H</td><td>Factor D 1.0 Dective Factor E 1.0</td></sep<.01h></td></sep<.005h>	ngitudinal Directions Significant .005 <sep<.01h .005<sep<.01h="" 0.1="" 0.7="" 0.9="" directions="" from="" ngitudinal="" oerformance="" significant="" so<="" some="" td=""><td>Insignificant Sep>.01H</td><td>Factor D 1.0 Dective Factor E 1.0</td></sep<.01h>	Insignificant Sep>.01H	Factor D 1.0 Dective Factor E 1.0
Table for Selection of Aligonoment: Nil b) Factor D2: - Height Table for Selection of Selectio	of Factor D1 Alignment of Floors within 20 lignment of Floors not within 20 It Difference Effect Of Factor D2 Height Difference Height Difference Height Difference Height Difference Height Difference Height Difference Severe Herformance Severe Herformance Heroce of all other relevant characters of Factor F:	Fact Separation 0% of Storey Height 0% of Storey Height Fact erence > 4 Storeys rence 2 to 4 Storeys ference < 2 Storeys action etc as it affects acterstics of the building	or D1 For Lo Severe 0 <sep<.005h 0="" 0.4="" 0.7="" 0<sep<.005h="" 1="" 1.4="" d2="" for="" in="" lo="" or="" particular="" severe="" structu<="" structural="" td="" the=""><td>ngitudinal Directions Significant .005<sep<.01h .005<sep<.01h="" 0.1="" 0.7="" 0.9="" directions="" from="" ngitudinal="" oerformance="" significant="" so<="" some="" td=""><td>Insignificant Sep>.01H</td><td>Factor D 1.0 Dective Factor E 1.0</td></sep<.01h></td></sep<.005h>	ngitudinal Directions Significant .005 <sep<.01h .005<sep<.01h="" 0.1="" 0.7="" 0.9="" directions="" from="" ngitudinal="" oerformance="" significant="" so<="" some="" td=""><td>Insignificant Sep>.01H</td><td>Factor D 1.0 Dective Factor E 1.0</td></sep<.01h>	Insignificant Sep>.01H	Factor D 1.0 Dective Factor E 1.0

Initial Evaluation Proc	edure (IEP) Assessment - Comple	eted for Hu	itt City Cou	ncil	Page 5
Street Number & Name: AKA:	53 Farmer Crescent		•••••		5-C3957.00
Name of building:	Pomare-Taita Community House		D	ate:	GSF 21/08/2019
City:	Taita, Hutt City		K	evision No.:	0
	Evaluation Procedure Step 3				
Step 3 - Assessment of Portion B3.2 Refer Appendix B - Section B3.2	erformance Achievement Ratio (PAR)				
o) Transverse Direction					Fastana
potential CSWs	Effect on Stru (Choose a value				Factors
.1 Plan Irregularity	·		, politio)		
Effect on Structural Perfort Comment: Nil	mance Severe	Significant		Insignificant	Factor A 1.0
3.2 Vertical Irregularity					
Effect on Structural Perfor Comment: Nil	mance Severe	Significant		Insignificant	Factor B 1.0
.3 Short Columns					
Effect on Structural Perfort Comment: Nil	mance Severe	Significant		Insignificant	Factor C 1.0
.4 Pounding Potential (Estimate D1 and D2 and se	et D = the lower of the two, or 1.0 if no potential	for pounding,	, or consequenc	es are considered	to be minimal)
a) Factor D1: - Pounding Effe	ect				
Note:	···				
	he building has a frame structure. For stiff building the coefficient to the right of the value appl			occor pounting	
			Transverse Dire		
Table for Selection	of Factor D1 Separation	Severe 0 <sep<.005h< td=""><td>Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H</td><td></td></sep<.01h<></td></sep<.005h<>	Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H</td><td></td></sep<.01h<>	Insignificant Sep>.01H	
	Alignment of Floors within 20% of Storey Height	O 1	O 1	() 1	
Comment: Nil	ignment of Floors not within 20% of Storey Height	O 0.4	0.7	0.8	
b) Factor D2: - Heigh	t Difference Effect				
	Fa	ctor D2 For 1	Γransverse Dire	ection: 1.0	
Table for Selection	of Factor D2	Severe 0 <sep<.005h< td=""><td>Significant .005<sep<.01h< td=""><td>Insignificant Sep>.01H</td><td></td></sep<.01h<></td></sep<.005h<>	Significant .005 <sep<.01h< td=""><td>Insignificant Sep>.01H</td><td></td></sep<.01h<>	Insignificant Sep>.01H	
	Height Difference > 4 Storeys	0.4	0.7	1	
	Height Difference 2 to 4 Storeys Height Difference < 2 Storeys	○ 0.7 ○ 1	○ 0.9 ○ 1	○ 1 ○ 1	
Comment: Nil					Factor D 1.0
5 Site Characteristics - S	tability, landslide threat, liquefaction etc as it affect	s the structural	nerformance fron	n a life-safety nersn	
	·		portormando mon		_
Effect on Structural Performant: No impact on p	<u> </u>	Significant		Insignificant	Factor E 1.0
Record rationale for	ance of all other relevant characterstics of the build choice of Factor F: per and lightweight roof, substantially added and al			kimum value 1.5. minimum.	Factor F 2.50
3.7 Performance Achievem (equals A x B x C x D x	• •			Т	ransverse 2.50
Buildings" Technical Guidelines for Eng	has been carried out solely as an initial seismic assessment of ineering Assessments, July 2017. This spreadsheet must be refer purpose. Detailed inspections and engineering calculations.	ead in conjunction	with the limitations	set out in the accompar	nying report, and should

	et Number & Name:	53 Farmer Crescent	Job No.:	5-C3957.00
AKA: Name of building: City:		Pomare-Taita Community House	By: Date:	GSF 21/09/2019
		Taita, Hutt City	Revision No	21/08/2019 o.: 0
ak	ole IEP-4 Initial Ev	aluation Procedure Steps 4, 5, 6 and	7	
ite	o 4 - Percentage of New	Building Standard (%NBS)	Longitudinal	Transverse
l.1	Assessed Baseline %NE (from Table IEP - 1)	SS (%NBS) _b	28%	28%
l.2	Performance Achieveme (from Table IEP - 2)	ent Ratio (PAR)	2.50	2.50
l.3	PAR x Baseline (%NBS)	b	70%	70%
1.4	Percentage New Buildin (Use lower of two values	g Standard <i>(%NBS)</i> - Seismic Rating from Step 4.3)		70%
Ste	o 5 - Is <i>%NB</i> S < 34?			NO
Ste	o 6 - Potentially Earthqu	ake Risk (is <i>%NBS <</i> 67)?		NO
Ste	o 7 - Provisional Gradin	g for Seismic Risk based on IEP	Seismic Gr	ade B
	Additional Comments (its	on of water offersting IFD based enjoying matings)		
	Comment: Modern alteration	ns of note affecting IEP based seismic rating)		

Relationship between Grade and *%NBS*:

Grade:	A+	A	В	С	D	E
%NBS:	> 100	100 to 80	79 to 67	66 to 34	< 34 to 20	< 20

WARNING!! This initial evaluation has been carried out solely as an initial seismic assessment of the building following the procedure set out in "The Seismic Assessment of Existing Buildings" Technical Guidelines for Engineering Assessments, July 2017. This spreadsheet must be read in conjunction with the limitations set out in the accompanying report, and should not be relied on by any party for any other purpose. Detailed inspections and engineering calculations, or engineering judgements based on them, have not been undertaken, and these may lead to a different result or seismic grade.

Initial Evaluation Procedure (IEP) Assessment - Completed for Hutt City Council

Page 7

Street Number & Name:	53 Farmer Crescent	Job No.:	5-C3957.00
AKA:		By:	GSF
Name of building:	Pomare-Taita Community House	Date:	21/08/2019
City:	Taita, Hutt City	Revision No.:	0

Table IEP-5 Initial Evaluation Procedure Step 8

Step 8 - Identification of potential Severe Structural Weaknesses (SSWs) that could result in significant risk to a significant number of occupants

8.1 Number of storeys above ground level

1

8.2 Presence of heavy concrete floors and/or concrete roof? (Y/N)

N

Potential Severe Structural Weaknesses (SSWs):

Note: Options that are greyed out are not applicable and need not be considered.

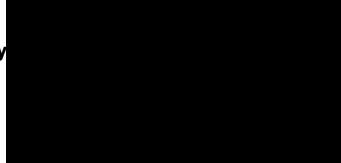
Occupancy not considered to be significant - no further consideration required

Risk not considered to be significant - no further consideration required

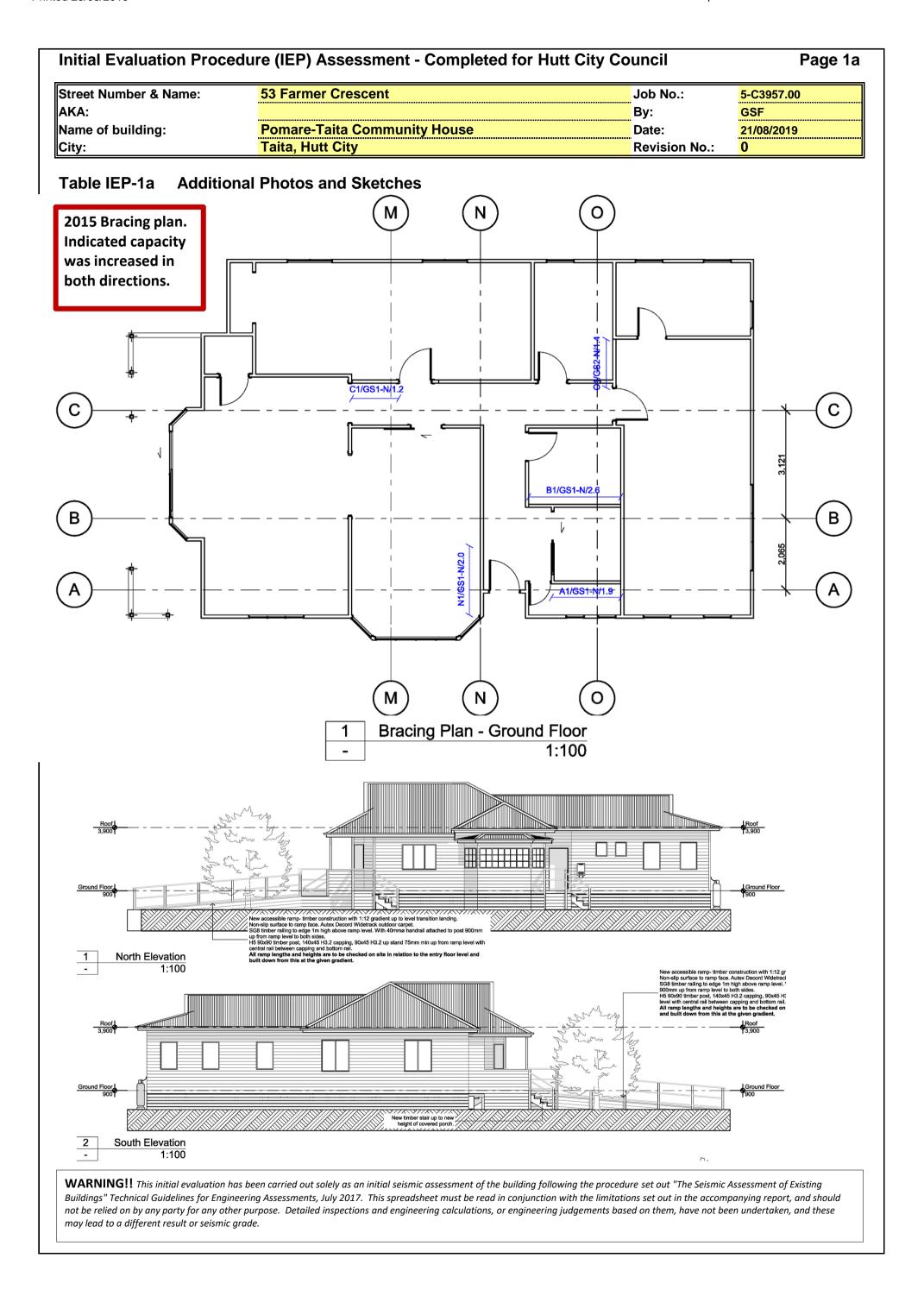
The following potential Severe Structural Weaknesses (SSWs) have been identified in the building that could result in significant risk to a significant number of occupants:

- 1. None identified
- 2. Weak or soft storey (except top storey)
- 3. Brittle columns and/or beam-column joints the deformations of which are not constrained by other structural elements
- 4. Flat slab buildings with lateral capacity reliant on low ductility slab-to-column connections
- 5. No identifiable connection between primary structure and diaphragms
- 6. Ledge and gap stairs

IEP Assessment Confirmed by



WARNING!! This initial evaluation has been carried out solely as an initial seismic assessment of the building following the procedure set out in "The Seismic Assessment of Existing Buildings" Technical Guidelines for Engineering Assessments, July 2017. This spreadsheet must be read in conjunction with the limitations set out in the accompanying report, and should not be relied on by any party for any other purpose. Detailed inspections and engineering calculations, or engineering judgements based on them, have not been undertaken, and these may lead to a different result or seismic grade.



1. Building Information	1
Building Name/ Description	Pomare-Taita Community House
Street Address	53 Farmer Crescent, Taita
Territorial Authority	Hutt City Council
No. of Storeys	1
Area of Typical Floor (approx.)	150 sqm
Year of Design (approx.)	2 stages: 1960 and 1990
NZ Standards designed to	NZS 3604:1984 or 1990
Structural System including Foundations	Timber framed with modern Gib wall linings and timber weatherboard cladding. Pile foundation, anchor plies included in 1991 extension Lightweight timber with lightweight cladding
Does the building comprise a shared structural form or shares structural elements with any other adjacent titles?	No
Key features of ground profile and identified geohazards	Flat even ground profile, subsoil C
Previous strengthening and/ or significant alteration	Extended 1990 Altered 2015 – wall bracing capacity increased based on design calculations
Heritage Issues/ Status	Nil
Other Relevant Information	Nil

2. Assessment Information **Consulting Practice** CPEng Responsible, including: Name **CPEng number** A statement of suitable skills and experience in the seismic assessment of existing buildings1 Documentation reviewed, including: 1960 site block plan - Taita date/version of 1990 extension - sheets 1 to 4 of 4 drawings/ 2015 alterations Pomare Community Centre calculations² previous seismic assessments Geotechnical Report(s) NA – assumed based on local knowledge refer to section 3 Date(s) Building Inspected and extent of 21 August 2019 inspection Description of any structural testing None undertaken and results summary **Previous Assessment** NA Reports Other Relevant Nil Information

¹ This should include reference to the engineer's Practice Field being in Structural Engineering, and commentary on experience in seismic assessment and recent relevant training

² Or justification of assumptions if no drawings were able to be obtained

3. Summary of Engineering Assessment Methodology and Key Parameters Used		
Occupancy Type(s) and Importance Level	Importance Level 2	
Site Subsoil Class	D assumed based on local knowledge and NZS1170.5:2004 Site Subsoil Classification of Lower Hutt http://nzsee.org.nz/db/2011/013.pdf	
For an ISA:		
 Summary of how Part B was applied, including: Key parameters such as μ, S_p and F factors Any supplementary specific calculations 	Ductility – 2.0 lined and braced timber framed walls Sp Factor – 0.5 for lightweight timber structure F Factor – 2.5 both directions (maximum) based on the arrangement and length of the bracing walls, significantly altered and extended since 1990.	
For a DSA:		
Summary of how Part C was applied, including: • the analysis methodology(s) used from C2 • other sections of Part C applied	NA	
Other Relevant Information	NA	

4. Assessment Outcomes			
Assessment Status (Draft or Final)	Final		
Assessed %NBS Rating	70%NBS IL2		
Seismic Grade and Relative Risk (from Table A3.1)	Rating B, 2 – 5 times greater		
For an ISA:			
Describe the Potential Critical Structural Weaknesses	None identified		
Does the result reflect the building's expected behaviour, or is more information/ analysis required?	Yes – the ISA is sufficient		
If the results of this ISA are being used for earthquake prone decision purposes, and elements rating <34%NBS have been identified:	Engineering Statement of Structural Weaknesses and Location NA	Mode of Failure and Physical Consequence Statement(s) NA	
For a DSA:			
Comment on the nature of Secondary Structural and Non-structural elements/ parts identified and assessed			
Describe the Governing Critical Structural Weakness			
If the results of this DSA are being used for earthquake prone decision purposes, and elements rating <34%NBS have been identified (including Parts) ³ :	Engineering Statement of Structural Weaknesses and Location	Mode of Failure and Physical Consequence Statement(s)	
Recommendations (optional for EPB purposes)			

³ If a building comprises a shared structural form or shares structural elements with other adjacent titles, information about the extent to which the low scoring elements affect, or do not affect the structure.