

Blasting Vibration Database																				
Site	Hansons Craig Yr Hesg Quarry																			
Date	Blast reference	Location	Type of blast	Boxes or MB?	MIC in Kg	Blast Ratio T/kg	Total Charge Weight kg	Burden / Spacing / Depth	Depth	Initiation system	Location of seismograph	peak particle velocity in mm/sec	Frequency	AOP in dBL	Independently verified figures*	Distance in m	Weather	Complaints / Comments	Name and Address of Complainant	Scaled distance
				MB – Millisecond Blasting – delays between the detonation of individual charges	MIC – Maximum Instantaneous Charge – max charge in each individual detonation which is crucial in controlling blasting vibration	Blast Ratio – amount of rock blasted divided by total charge weight	Total Charge Weight – is the weight of the charges used	Burden: - the distance from a blasthole to the nearest free face or the distance between rows of holes in a multi-row blast / Spacing: - refers to the distance between adjacent blastholes in a row. Proper spacing ensures that the explosive energy is distributed evenly across the rock mass, leading to efficient breakage and minimizing the risk of unbroken rock between holes.				DNT – when used in the cell stands for 'Did Not Trigger' the vibrograph.								
16/08/2018	E514	Top ramp	Production	Blendex	30	4.89	1,276	45354	14.8	Digishot	Glyncoch / Rogart	5.08 / 1.175	32.0 / 19.23	126 / 112		210	dry overcast	None	None	38.34
16/08/2018	E515		Production	Blendex	45	4.04	2,189	45354	11.8	Digishot	Rogart / Glyncoch	3.4 / 4.191	14.6 / 23.8	125 / 100		250	dry overcast	None	None	
10/09/2018	E516	Top ramp	Production	Blendex	60	4.42	2,872	45354	17.5	Digishot	Glyncoch *2	3.3 / 3.493	21.73 / 21.3	127 / 126		222	dry overcast	None	None	
17/09/2018	E517	132m	Production	Blendex	60	3.20	5,074	45354	8	Digishot	Rogart - Conway	2.65	15.15	113		290	dry overcast	None	None	
19/10/2018	E518	132m	Production	Blendex	61	3.74	5,566	45354	12.9	Digishot	Rogart - Conway	4.075	14.28	115		280	dry sunny	None	None	
07/11/2018	E519	126m	Production	Blendex	52	4.22	4,625	45354	12.1	Digishot	Rogart - Conway	DNT	DNT	DNT		260	rain	None	None	
30/11/2018	E520	Top ramp	Production	Blendex	58	3.74	3,903	45354	10	Digishot	Glyncoch	DNT	DNT	DNT		241	light rain	None	None	
12/12/2018	E521	Top ramp	Production	Blendex	58	3.85	1,950	45354	14.7	Digishot	Rogart - Conway	3.375	15.62	120		286	dry overcast	None	None	
04/01/2019	E522	Top ramp	Production	Blendex	58	3.53	1,618	45354	9.4	Digishot	Glyncoch	1	11.36	127		288	Dry / clouds	None	None	
10/01/2019	E523	126m	Production	Blendex	45.45	3.66	2,381	45354	12.8	Digishot	Rogart terrace	3.75	12.5	116		254	Dry / clouds	None	None	
18/01/2019	E524	Top ramp	Production	Blendex	85	3.43	1,499	45354	10	Digishot	Glyncoch	2.8	45.45	120		288	Overcast / rain	None	None	
12/02/2019	E525	126m	Production	Blendex	39	5.04	1,416	45354	10.2	Digishot	Rogart terrace	Issue with vibrograph	Issue with vibrograph			268	Overcast / rain	None	None	
12/02/2019	E526	126m	Production	Blendex	46	1.00	10,390	45354	12	Digishot	Rogart terrace	Issue with vibrograph	Issue with vibrograph			280	Overcast / rain	None	None	
04/03/2019	E527	126m	Production	Blendex	46	3.58	5,921	45354	12.4	Digishot	Rogart terrace	5.425	19.23	118		250	Heavy shower	None	None	
21/03/2019	E528	126m	Production	Blendex	45	3.76	2,580	45354	11.5	Digishot	Rogart terrace	2.925	20.83	118		280	Overcast	None	None	
29/03/2019	E529	126m	Production	Blendex	65	3.37	2,811	45354	8.8	Digishot	Rogart terrace	4.575	23.8	112		394	Sunny	None	None	
10/04/2019	E530	126m	Production	Blendex	73	3.63	2,951	45354	10.9	Digishot	Rogart terrace	3.575	13.88	112		270	Dry clear sky	None	None	
26/04/2019	E531	126m	Production	Blendex	59	3.27	1,888	45354	8	Digishot	Rogart terrace	4.925	26.31	117		240	Light rain	None	None	
03/05/2019	E532	126m	Production	Blendex	67	3.58	2,357	45354	7.5	Digishot	Rogart terrace	2.35	26.31	114		260	dry overcast	None	None	
16/05/2019	E532	126m	Production	Blendex	65	3.60	3,393	45354	7.9	Digishot	Rogart terrace	4.3	19.23	116		300	Dry sunny	None	None	
28/05/2019	E533	126m	Production	Blendex	81	3.40	2,427	45354	8.6	Digishot	Rogart terrace	3.7	16.12	113		310	Dry overcast	None	None	
05/06/2019	E534	Level 7	Production	Blendex	99	3.07	4,543	45354	9.3	Digishot	Rogart / Glyncoch	4.2 / 1.10		115		300	dry overcast	None	None	
14/06/2019	E535	Level 7	Production	Blendex	81	3.61	2,620	45354	9	Digishot	Rogart terrace	2.4		118		300	dry overcast	None	None	
25/06/2019	E536	Level 4	Production	Blendex	78	3.39	2,209	45354	8.9	Digishot	Glyncoch	4.12		112		280	light rain	None	None	
05/07/2019	E537	Level 8	Production	Blendex	57	3.98	3,755	45354	7.7	Digishot	Rogart terrace	2.6		114		250	Sunny	None	None	
17/07/2019	E538	Ramp extension	Production	Blendex	60	3.42	3,105	45354	7.7	Digishot	Glyncoch	2.85		111		275	dry overcast	None	None	
26/07/2019	E539	Level 8	Production	Blendex	103	3.24	7,725	45354	14	Digishot	Rogart terrace	DNT		DNT		260	dry sunny	None	None	
19/08/20219	E540	Level 8	Production	Blendex	58	3.06	6,308	45354	14	Digishot	Rogart terrace	5.62		109		230	dry overcast	None	None	
03/09/2019	E541	Level 8	Production	Blendex	58	3.15	3,389	45354	14	Digishot	Rogart terrace	5.52		109		240	dry overcast	None	None	
13/09/2019	E542	Level 8	Production	Blendex	58	2.99	4,716	45354	14	Digishot	Rogart terrace	3.33		112		280	dry overcast	None	None	
23/09/2019	E543	Level 4	Production	Blendex	131	4.96	2,379	45354	14	Digishot	Glyncoch	3.3		112		300	rain	None	None	
08/10/2019	E544	Level 8	Production	Blendex	59	3.11	5,274	45354	14	Digishot	Rogart terrace	DNT		DNT		280	dry overcast	None	None	
25/10/2019	E545	Level 4 toes	Production	Blendex	39	6.50	297	45354	5.5	Digishot	Glyncoch	DNT		DNT		290	rain	None	None	
07/11/2019	E546	Level 4	Production	Blendex	73	3.85	3,008	45354	11.5	Digishot	Glyncoch	2.7		107		260	dry cloudy	None	None	
14/11/2019	E548	Toes level 4	Production	Blendex	72	4.31	879	45354	9	Digishot	Glyncoch	DNT		DNT		280	rain	None	None	
05/12/2019	E549	Level 5	Production	Blendex	168	2.61	4,479	45354	13.5	Digishot	Glyncoch	2.26		113		300	dry overcast	None	None	
08/01/2020	E550	Level 5	Production	Blendex	130	2.49	1,658	45354	12.6	Digishot	Rogart terrace	2.98		125		280	dry overcast	None	None	
27/01/2020	E551	Level 5	Production	Blendex	111	3.17	4,897	45354	9.9	Digishot	Rogart terrace	3.2		125		260	dry overcast	None	None	
11/02/2020	E552	Level 5	Production	Blendex	129	2.62	3,822	45354	11.9	Digishot	Rogart terrace	1.77		110		250	Dry - Cloudy	None	None	
21/02/2020	E553	Level 5	Production	Blendex	180	2.34	7,906	45354	15.8	Digishot	Rogart Terrace / Glyncoch	2.72 / 2.28		107 / 117		270 / 280	rain overcast	None	None	
10/03/2020	E555	Level 5	Production	Blendex	165	2.53	6,472													

10/06/2022	E596	Level 4	Production	Blendex	159	2.71	10,407	45354	15.7	Digishot	Penybryn	3.12		116		275	Sunny	1	Glyncoch Terrace	
07/07/2022	E597	Level 4	Production	Blendex	155	2.42	13,962	45354	15	Digishot	Penybryn/Conway close	3.97/1.68		107/108		265	Sunny	0		
19/08/2022	E598	Level 4	Production	Blendex	155	2.35	10,357	45354	15.4	Digishot	Penybryn	4.50		112		265	Sunny	0		
28/09/2022	E599	Level 4	Production	Blendex	161	2.44	6,256	45354	16	Digishot	Penybryn	1.72		113		310	Dry Overcast	1	Conway Close	
24/10/2022	E600	Level 4	Production	Blendex	162	2.43	11,672	45354	15.9	Digishot	Penybryn	1.22		121		312	Heavy Rain	1	Conway Close	
22/11/2022	E601	Level 5	Production	Blendex	153	3.24	9,675	3.3/3.3	15.1	Digishot	Penybryn	3.95		114		278	Dry Overcast	0		
20/12/2022	E602	Level 4	Production	Blendex	182	2.94	9,582	3.3/3.3	17	Digishot	Penybryn	1.95		121		364	Dry Overcast	7		
23/01/2023	E603	Level 5	Production	Blendex	158	3.01	9,098	3.3/3.3	15	Digishot	Penybryn	2.80		116		280	Sunny	1	Conway Close	
16/03/2023	E604	Level 5	Production	Blendex	141	2.93	8,712	3.3/3.3	13	Digishot	Penybryn	3.60		116		280	Heavy Rain	1	Conway Close	
21/04/2023	E605	Level 5	Production	Blendex	143	3.06	10,829	3.3/3.3	15	Digishot	Penybryn	3.30		115		280	overcast	3	Conway Close	
18/05/2023	E606	Level 5	Production	Blendex	160	2.95	8,537	3.3/3.3	15.4	Digishot	Penybryn	4.45		100		288	Sunny	0		
26/06/2023	E608	Level 5	Production	Blendex	169	3.26	6,941	3.3/3.3	15.2	Digishot	Penybryn	2.57		111		288	cloudy	0		
31/07/2023	E609	Level 5	Production	Blendex	152	3.17	10,901	3.3/3.3	14.3	Digishot	Penybryn	1.15		115		355	cloudy	0		
01/09/2023	E610	Level 5	Production	Blendex	198	2.80	10,015	3.3/3.3	16.3	Digishot	Penybryn	3.02		113		275	cloudy	0		
06/10/2023	E611	Level 6	Production	Blendex	150	2.89	12,750	3.3/3.3	15	Digishot	Penybryn	2.60		116		290	cloudy	1		
07/11/2023	E612	Level 6	Production	Blendex	151	3.23	8,720	3.3/3.3	15	Digishot	Penybryn	5.81		119		280	cloudy	0		
05/12/2023	E613	Level 6	Production	Blendex	131	2.88	7,800	45354	14	Digishot	Penybryn	3.60		111		292	cloudy	0		
11/01/2024	E614	Level 6	Production	Blendex	173	2.74	6,388	3.2/3.2	16	Digishot	Penybryn	1.42		114		315	sunny	0		
19/01/2024	E615	Level 6	Production	Blendex	176	2.84	7,140	3.3/3.3	16.3	Digishot	Penybryn	2.90		117		275	sunny	0		
05/02/2024	E616	Level 6	Production	Blendex	163	2.94	6,396	3.3/3.3	16	Digishot	Penybryn	3.60		117		275	showers/overcast	1	Conway Close	
19/02/2024	E617	Level 6	Production	Blendex	189	2.70	6,691	3.3/3.3	18	Digishot	Penybryn	3.40		115		285	showers/overcast	0		
17/04/2024	E618	Level 5 (Buttress)	Production	Blendex	127	2.69	5,229	45354	15	Digishot	Rogart Terrace	3.30		113		278	overcast	0		
03/05/2024	E620	Level 5 (Buttress)	Production	Blendex	134	2.54	1,641	45354	13.7	Digishot	Conway/Rogart	2.27		108		278	cloudy	0	Conway vibrograph DNT	
10/05/2024	E621	Level 5 (tophaul road)	Production	Blendex	58	4.00	4,871	45354	14	Digishot	Conway/Rogart	2.45/1.55		108/112		198	sunny	0		
18/06/2024	E622	Level 5 (tophaul road)	Production	Blendex	66	4.77	5,875	3.3/3.3	15.7	Digishot	Coed-Y-Lan	3.95		114		246	sunny	0		
05/08/2024	E623	Level 5 (tophaul road)	Production	Blendex	75	4.48	3,572	3.3/3.3	15.6	Digishot	Coed-Y-Lan	1.57		110			Drizzle	0		
25/09/2024	E624	Level 7 (buttress)	Production	Blendex	143	3.79	6,465	3.5/3.5	20.8	Digishot	Rogart Terrace	4.19		114	*Independent verification began 25/10/2024	243	heavy Rain	15	Councillor Dawn Wood, Greenfield Avenue, 2 x Lan Park Road, 1 x Darren Ddu Road, 10 no address given	
25/10/2024	E625	Level 5 (tophaul road)	Production	Blendex	120	3.17	2,628	45354	12.8	Digishot	Coed-Y-Lan,Garth Ave,Rogart	2.44		118	Penybryn – 116dB Garth Avenue Shop – 118dB Rogart Terrace – 100dB	248	cloudy	0		
13/11/2024	E626	Level 7 (buttress)	Production	Blendex	110	3.53	8,356	3.2/3.7	21.4	Digishot	Coed-Y-Lan,Rogart	5.89		119.9	Rogart Terrace – Vibration 5.89 mm/sec and air overpressure (AOP) of 114dB; Coed Y Lan – Vibration 1.45 mm/sec and AOP 119.9dB	269	Sunny	22	11 complaints to Heidelberg Materials (no addresses). 11 complaints to RCT CBC - Lan Park, Glyncoch Terrace, 9 no address given.	
11/12/2024	E627	Level 1	Production	Blendex	146	3.81	15,081	3.5/3.5	15.6	Digishot	Coed-Y-Lan	2.49		113	Garages to the rear of Pearson Crescent north of the Rugby Pitch2.49 mm/sec peak particle velocity (PPV) 113.18 dB Air Overpressure (AOP)	323	cloudy	14	Greenfield Avenue, The Avenue, Glyncoch Terrace, Cefn Lane, Elmgrove Close, Conway Close, 8 with no address	
17/01/2024	E628	Level 7	Production	Blendex	69	3.36	5,878	3.3 / 3.3	20.4	Digishot	Rogart Terrace	3.36		120		252	Dry / overcast	21	9 received by Heidelberg Materials. 12 received by RCT CBC - Conway Close, Bonvilston Road, The Parade, Trailwn, 8 with no address	
07/02/2024	E629	Level 7	Production	Blendex	78	4.02	4,136	3.5 / 3.2	20.4	Digishot	Rogart Terrace	4.77		117	Figures independently verified	260	Cloudy	20	10 received by Heidelberg Materials. 10 received by RCT CBC - Councillor Dawn Wood, 2 x Lan Park, Francis Terrace, Coed Y Cwm 3 x Trailwn, 2 with no address	
19/02/2025	E630	Level 1	Production	Blendex	78	4.76	2,957	3.5 / 3.5	9.4	Digishot	Pen-y-Bryn	DNT		DNT	Independently verified - DNT	320	Cloudy	11	6 received by Heidelberg Materials. 5 received by RCT CBC - 2 x Conway Close, 3 no address given	
28/02/2025	E631	Level 7	Production	Blendex	84	3.69	3,329	3.5 / 3.2	20.8	Digishot	Rogart Terrace	3.81		124	The blast exceeded the air overpressure limit as set out in Planning Condition 26 of the consent (the appeal decision). This requires the applicant (Heidelberg Materials) to review the design, management and implementation of any future blasts to ensure that they do not exceed this limit. The enforcement of / compliance with this condition is being undertaken, on behalf of RCT Council, by the consultants employed to monitor blast levels (Carmarthenshire Council Minerals Team).	270	Sunny and clear	5	2 received by Heidelberg Materials. 3 received by RCT CBC - 1 Berw Road, 2 no address given	
17/03/2025	E632	Level 1	Production	Blendex	126	3.86	5,950	3.5/3.5	13.1	Digishot	Pen-y-Bryn	1.15		113	Figures independently verified	322	Cloudy	12	7 received by Heidelberg Materials. 5 received by RCT CBC - 1 x Conway Close, 4 no address given	
11/04/2025	E633	Level 1	Production	Blendex	126	3.65	7,867	3.5/3.5	12.7	Digishot	Pen-y-Bryn	1.87		117		346	sunny and clear	14	7 received by Heidelberg Materials. 7 received by RCTCBS - 2 Conway Close, 1 Greenfield Avenue, 4 no address given	
09/05/2025	E634	Level 1	Production	Blendex	101	4.62	3,086	3.5/3.5	9.2	Digishot	Pen-y-Bryn	DNT		DNT		312	sunny	19	9 received by Heidelberg Materials10 received by RCTCBC -	
09/05/2025	E635	Level 1	Production	Blendex	133	3.62	4,941	3.5/3.5	13.5	Digishot	Pen-y-Bryn	DNT		DNT		354	sunny			
09/06/2025	E636	Level 1	Production	Blendex	118	4.01	6,793	3.5/3.5	12.7	Digishot	Pen-y-Bryn	1.57		118	DNT - verified by independent vibrograph	325	overcast	19	9 received by Heidelberg Materials. 10 received by RCTCBC - 1 Conway Close, 1 Berw Road, 1 Greenfield Avenue, 7 no address given)	
01/07/2025	E637	Level 1	Production	Blendex	125	3.60	8,834	3.5/3.5	12.7	Digishot	Pen-y-Bryn	1.2		118		348	clear	6	2 received by Heidelberg Materials. 4 received by RCTCBC - 1 Berw Road, 3 no address given	
09/07/2025	E638	Level 2	Production	Blendex	144	2.64	14,808	45719	13.4	Digishot	Pen-y-Bryn	1.52		109	VERIFICATION Longitudinal (L) 1.36, Vertical (V) 1.56, Transverse (T) 1.72 / AOP 109 dB - Carmarthenshire L 1.65, V 1.52, T 1.35, / AOP 109 dB – Heidelberg	366	dry / cloudy	7	7 received by RCTCBC. 2 from Greenfield Avenue, 1 from Cefn Lane, 1 from Glyncoch Terrace, 3 no address given	
19/08/2025	E639	Level 1	Production	Blendex	114	3.79	8,526	3.5 /3.5	11.9	Digishot	Pen-y-Bryn	1.12		113	Independently verified at Conway Close AOP = 109db. PPV = 2.03 both are in compliance with the consent	352	dry / cloudy	17	8 received by Heidelberg Materials. 9 received by RCTCBC - 1 from Greenfield Avenue, 1 from Cefn Close, 1 from Darren Ddu Road, 1 from Conway Close, 1 from Cefn Heulog. 4 no address given	
15/09/2025	E640	Level 1	Production	Blendex	112	4.80	3,512	45751	12.1	Digishot	Pen-y-Bryn	0.75		120		322	Cloudy / showers	3	1 received by Heidelberg Materials. 2 received by RCT CBC - 1 from Darren Ddu Road and 1 from Ashgrove.	
23/09/2025	E642	Level 7	Production	Blendex	103	3.08	7,029	45719	10.2	Digishot	Rogart Terrace	1.55		106	Rogart Terrace. PPV 1.72mm/s and the sites machine I witnessed 1.55mm/s which will be recorded. AOP both machines logged 106dB. Rogart Terrace: L 0.90mm/s, V 1.29mm/s and L 1.72mm/s. (PPV) And AOP 105dB.	260	Sunny	5	1 received by Heidelberg Materials. 3 received by RCT CBC - 1 from Ashgrove, 2 from Lanpark Road and 1 no address given.	
30/09/2025	E643	Level 7	Production	Blendex	81	3.21	2,493	45719	14	Digishot	Rogart Terrace	1.55		106		268	Clear	2	1 received by Heidelberg Materials. 1 received by RCT CBC - 1 no address given.	
30/10/2025	E644	Level 7	Production	Blendex	102	2.57	9,576	2.7 / 2.7	10.3	Digishot	Rogart Terrace	0.87		107	DNT	303	Overcast	4	1 received by Heidelberg Materials. 3 received by RCT CBC - 1 Cefn Lane, 2 no address given.	