Bats at Leather Lane, 2025-26 part 3



Detector Positions, Aug-Sept 2026

Our third deployment of 3 detectors took place over 13 nights, 23rd-August to 4th September 2026. Detectors were positioned as shown above -

LL W On the S bank of Leather Lane, around 50m west of the west tie in for the new road.② is the site used in our historical measurements, ①is 5m to the west, and was used when ② was covered in dead branches, which have been removed.

LL-PR At the corner of LL and Potter Row. Less affected by construction works, and with a large bat population.



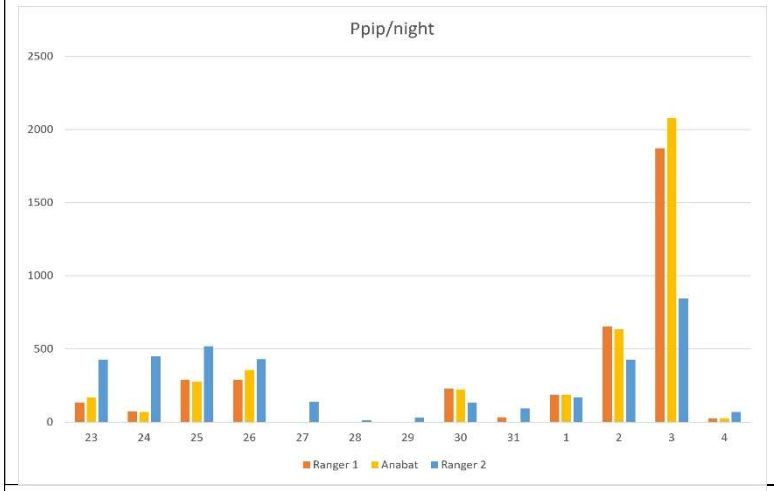
Detectors at LLW1, LLW2, LL-PR

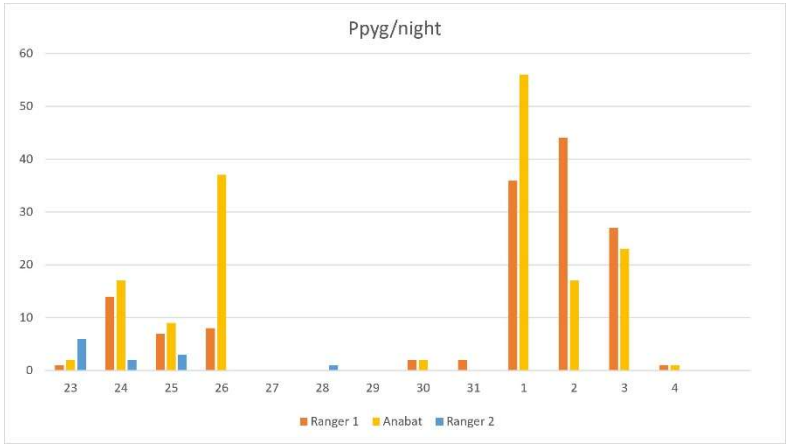
Site		Bbar	NSL	Paur	Ppip	Ppyg	Mnat
LL-PR	Ranger 2	1.2	1.5	0.0	287.	0.5	1.5
LL W1	Ranger 1	1.1	1.2	0.0	290.	10.9	0.
LL W2	Anabat	1.9	1.9	0.2	309.	12.6	0.

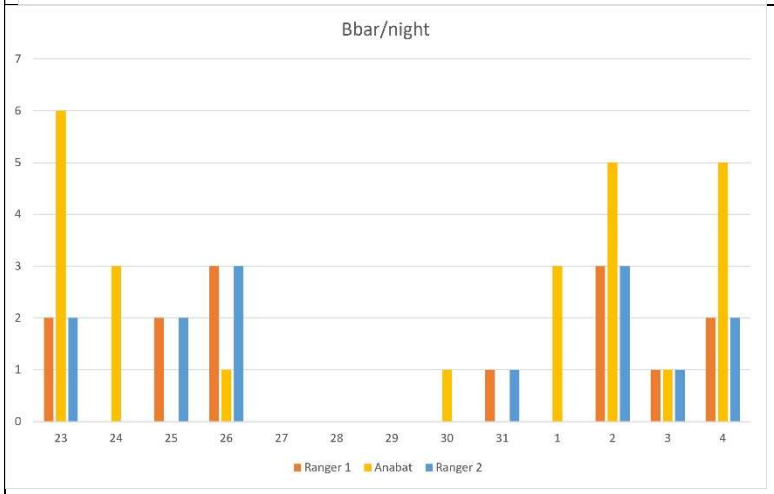
Bat passes/night

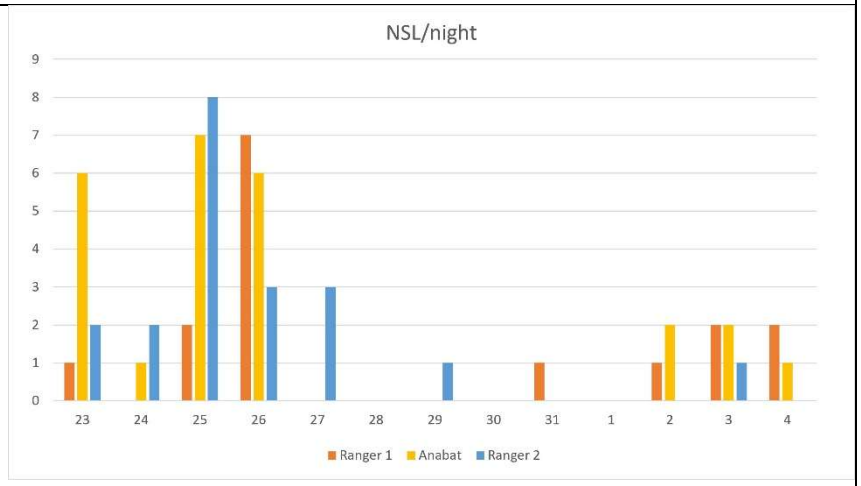
Bats were identified by Anabat Insight auto-id, with probability > 90%. The Bbar and Ppyg counts exclude passes which also had Ppip > 90%.

Bat Passes/Night









Pippistrelles favoured Potter Row in the first half of the deployment, and the Lane in the second half. Nearly all Soprano Pippistrelles were found on the Lane. Barbastelles were found in similar numbers by the Ranger detectors (LL-PR and LLW), but the Anabat (LL-W) foud around twice as many. NSL bats were predominantly detected in the first half of the deployment. 16 (of the 19 total) Mnat passes were recorded by Ranger 2 (Potter Row), on 27th-28th August between 10pm & 3am. The remaining 3 passes were also recorded at the same location.

Meteorology

Date	23	24	25	26	27	28	29	30	31
Min Temp	**6.2**	9.3	12.8	16.1	16.8	13.3	14.7	14.6	12.6
Total Rain,"	0	0	0	0	0	0.004	0.055	0.004	**0.185**
Average Wind Speed	**4.2**	9.0	15.4	11.6	12.8	9.6	16.5	15.5	17.8
Gusts	10.4	26.6	43.6	31.7	36	23.8	41	43.6	38.5
Pips, R2/Av	149%	156%	181%	149%	48%	**4%**	10%	46%	32%
Pips, R1/Av	46%	25%	100%	99%	**0%**	**0%**	**0%**	79%	11%
Date	1	2	3	4	5		Min	Max	Average
Min Temp	10.1	13.5	16.7	**18.3**	13.1		6.2	18.3	13.4
Total Rain,"	0	0	0	0	0		0	0.185	0.018
Average Wind Speed	11.4	8.9	17.4	**20.2**	14.5		4.2	20.2	13.2
Gusts	31.3	22.7	40	**48.6**	31.7		10.4	48.6	33.5
Pips, R2/Av	58%	148%	**294%**	24%			4%	294%	
Pips, R1/Av	64%	224%	**644%**	9%			0%	644%	

Weather Parameters and Pip. Passes/night; **;** extreme values in **bold**

There was reduced bat activity from 27th to 31st August, particularly on the lane (Ranger 1), with significant rainfall on 29th and 31st. The highest activity was recorded on 3rd September, when both minimum temperature and wind speed were above average. The highest values were recorded on the 4th September, but with low bat activity.

OpenMeteo uses weather forecasting methods to predict the weather at the target location from available data, and so provides an indication of the conditions, not an exact measurement. For a robust analysis, it would be necessary to set up an automatic weather station in addition to the bat meters.

Barbastelle passes

53 passes were identified as Barbastelle (by Auto-ID); 25, 14, 15 by A1, R1, R2. All are listed in Appendix 1. Only 2 were timed within 10sec at A1 and R1, despite the close proximity (5m) of the two detectors, and can be considered as a single pass. 8 passes were recorded between 01:20 and 01:29 on 3rd September, 3 by R1 and 5 by A1. None appear to be recordings of the same pass, but all eight could well be passes of the same individual.

On 27th August, R1 recorded a pass at 3:29:48, and R2 a pass at 3:32:24, a difference of 2m36s. These detectors are 700m apart, a flight time of 2m20s at 5m/sec. No other close matches were observed between detection times at R2 (Potter Row) and the detectors on the Lane.

Previous years

From	To	Moon	Bbar passes
2-8-21	17-8-21	New, 8-8-21	16
9-8-22	16-8-22	Full, 12-8-22	5
25-8-22	6-9-22	New, 27-8-22	2
18-9-22	29-9-22	New, 25-9-22	14 (Track trace)
22-6-26	29-6-26	Full, 30-6-26	7
23-8-26	4-9-26	Full, 28-8-26	25 (A1)

The Anabat (A1) detector was available in 2021-22, operating in ZC mode. It was positioned in the same location (LLW2) in all but one of the deployments above. The number of passes observed this year exceeds the numbers seen in previous comparable deployments.

It is not clear how (or if) Barbastelle are navigating the 'Green' bridge currently nearing completion. Before construction commenced, bats (presumably Pipistrelle) were seen crossing the track trace, where a dozen trees had already been felled, and in September 2022 a meter deployed at the trace recorded Barbastelle passes. The present data shows very little correlation between LL-W & LL-PR detectors, but bats could join or leave the flightline via hedges either side of the bridge. We cannot access the bridge itself, which is inside the HS2 act limits.

Conclusions

1. The Barbastelles have not deserted the Lane, despite the extensive construction works on the Lane and in the surrounding area.

2. As noted in the Bioscan report[1], increased activity in late summer may indicate the presence of juveniles, and so of a roost (or roosts) in the vicinity.

[1] https://saveleatherlane-wp.org.uk/leather-lane-new-bat-report

3. The (near) completion of the bridge might also contribute to enhanced activity as compared to June, although the data doesn’t show any correlation between activity east and west of the bridge.

Apart from the known aversion to rain, it is not clear how other weather conditions affect bat activity

Jim Conboy,
18-Oct-2026

Appx 1 - Barbastelle Pass Timings

Detector	Date	Time	File Duration	Species	Bbar%	Delta time
A1	23/08/2026	21:28:17	2.893	Bbar	98.808	
A1	23/08/2026	21:46:08	3.277	Bbar	97.712	
A1	23/08/2026	22:44:49	2.022	Bbar	98.1224	
R2	23/08/2026	23:42:33	4.429	Bbar	97.7456	
R1	24/08/2026	00:03:12	2.022	Bbar	93.7283	
A1	24/08/2026	00:11:27	2.509	Bbar	98.6587	
R1	24/08/2026	**00:35:47**	2.688	Bbar	98.6376	
A1	24/08/2026	**00:35:49**	4.557	Bbar	98.8435	00:00:02
A1	24/08/2026	01:47:13	2.176	Bbar	98.3261	
A1	24/08/2026	**21:43:05**	2.253	Bbar	96.5649	
R2	24/08/2026	**21:57:57**	4.019	Bbar	97.0966	00:14:52
A1	25/08/2026	02:17:14	2.048	Bbar	92.1986	
A1	25/08/2026	03:50:31	2.099	Bbar	98.7572	
R1	25/08/2026	22:12:21	3.968	Bbar	92.9894	
R1	25/08/2026	23:00:28	2.432	Bbar	98.2946	
R2	25/08/2026	23:29:20	2.637	Bbar	96.1458	
R2	25/08/2026	23:34:07	3.814	Bbar	98.2409	
R2	25/08/2026	23:36:35	2.534	Bbar	98.9052	
R2	25/08/2026	23:36:42	3.482	Bbar	98.8268	
R2	25/08/2026	23:40:16	3.302	Bbar	98.1151	
R2	26/08/2026	01:01:11	2.586	Bbar	98.618	
R1	26/08/2026	21:37:46	2.022	Bbar	92.5127	
A1	26/08/2026	**23:27:55**	3.098	Bbar	98.0396	
R1	26/08/2026	**23:32:59**	2.022	Bbar	98.2061	00:05:04
R2	27/08/2026	00:58:32	2.022	Bbar	98.4999	
R1	27/08/2026	**03:29:48**	3.302	Bbar	96.2604	
R2	27/08/2026	**03:32:24**	2.022	Bbar	98.6586	00:02:36

A1,R1 on the Lane (West); R2 at Potter Row

Detector	Date	Time	File Duration	Species	Bbar%	Delta time
R2	27/08/2026	22:37:36	2.022	Bbar	98.4126	
A1	30/08/2026	20:54:16	1.946	Bbar	98.6856	
R1	01/09/2026	01:31:57	2.534	Bbar	98.2125	
A1	01/09/2026	21:50:21	2.048	Bbar	97.6879	
A1	01/09/2026	23:00:24	2.944	Bbar	98.7963	
A1	02/09/2026	04:14:08	3.354	Bbar	98.7708	
R2	02/09/2026	22:48:34	3.354	Bbar	98.3194	
R1	03/09/2026	**01:20:46**	5.504	Bbar	97.7081	
R1	03/09/2026	**01:20:52**	2.022	Bbar	94.0759	00:00:06
A1	03/09/2026	**01:21:58**	2.048	Bbar	98.8117	00:01:06
A1	03/09/2026	**01:23:10**	2.458	Bbar	98.8122	00:01:12
A1	03/09/2026	**01:26:27**	2.048	Bbar	96.0572	00:03:17
A1	03/09/2026	**01:27:52**	7.475	Bbar	94.4953	00:01:25
R1	03/09/2026	**01:28:54**	2.022	Bbar	98.0251	00:01:02
A1	03/09/2026	**01:29:38**	2.048	Bbar	97.3676	00:00:44
R2	03/09/2026	03:04:18	2.842	Bbar	98.7289	
A1	03/09/2026	21:18:17	2.048	Bbar	97.1437	
R1	03/09/2026	23:37:12	2.022	Bbar	96.9937	
R2	04/09/2026	02:23:51	2.022	Bbar	91.7545	
R1	04/09/2026	20:59:52	2.022	Bbar	90.1206	
A1	05/09/2026	00:14:26	2.227	Bbar	97.9216	
A1	05/09/2026	00:29:57	2.765	Bbar	98.8415	
A1	05/09/2026	00:31:11	2.048	Bbar	97.9602	
A1	05/09/2026	03:37:54	2.150	Bbar	91.1846	
R1	05/09/2026	**03:52:51**	3.046	Bbar	97.491	
A1	05/09/2026	**03:52:57**	2.048	Bbar	97.2563	00:00:06