Water Eaton

PR6a : Land East of Oxford Road

Traffic Flow Noise Review
Technical Note

Bellway | **STRATEGIC LAND**

CHRIST CHURCH
UNIVERSITY OF OXFORD

WE/NV1/P02

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PR6a Water Eaton
Traffic Noise Review

Dice Environmental has undertaken a noise assessment in relation to the proposed development PR6a Water Eaton to the north of Oxford. This was based on predicted traffic flows around the site, provided by i-Transport in December 2022. This is set out in the Noise & Vibration Chapter of the Environmental Statement for that project, issued in February 2023. Following this, a scheme of revised traffic flow predictions has been generated, considering comments received from Oxfordshire County Council.

Table 1 presents the previous (Dec. 2022) and current (Oct. 2023) datasets for predicted traffic flows around the site. It can be seen from the table and following figures that the revised traffic flow predictions have an insignificant impact on the outcomes of the noise assessment issued previously. The conclusions stated in the Environmental Statement Chapter issued are still applicable and do not require modification.

Table 1: Comparison of Dec. 2022 and Nov. 2023 traffic flow prediction datasets

Link Location	Dec. 22		Oct. 23	
	Total	HGV	Total	HGV
2025 Baseline + Committed Development				
1. A420 Oxford Road (between Kidlington Roundabout and Sainsburys)	22,499	1,153	22,842	1,135
2. Bicester Road (north of Kidlington Roundabout)	11,678	429	11,888	422
3. Oxford Road (between Kidlington Roundabout and Park and Ride)	20,244	1,114	19,944	1,097
4. A4260 Frieze Way (south of Kidlington Roundabout)	17,710	358	17,952	353
5. Oxford Road (between Kidlington Roundabout and The Broadway)	8,275	0	8,156	0
6. Oxford Road (between Park and Ride and proposed PR6b access)	18,908	1,106	18,584	1,089
7. Oxford Road (between proposed PR6b access and proposed PR6a access)	18,821	1,106	18,574	1,089
8. Oxford Road (between proposed PR6a access and proposed signal junction)	18,821	1,106	18,574	1,089
9. Oxford Road (between proposed signal junction and Croudace Proposed Access)	18,815	1,106	18,564	1,089
10. Oxford Road (between Croudace Proposed Access and Five Mile Drive)	19,118	1,106	18,871	1,089
11. Banbury Road (between Five Mile Drive and Harbord Road)	19,573	1,114	19,389	1,097
12. Banbury Road (between Harbord Road and Harefields	19,311	1,114	19,116	1,097
13. Banbury Road (between Harefields and Cutteslowe Roundabout)	20,746	1,130	20,550	1,112
14. A40(E) (east of Cutteslowe Roundabout)	35,430	1,389	36,585	1,367
15. Banbury Road (between Cutteslowe Roundabout and Davenant Road)	18,395	904	18,323	890
16. A40(W) (between Cutteslowe Roundabout and Blandford Avenue)	27,170	537	28,571	528
2025 Baseline + Committed Development + PR6a				
1. A420 Oxford Road (between Kidlington Roundabout and Sainsburys)	22,810	1,153	23,130	1,135
2. Bicester Road (north of Kidlington Roundabout)	11,695	429	11,909	422
3. Oxford Road (between Kidlington Roundabout and Park and Ride)	21,036	1,114	20,818	1,097
4. A4260 Frieze Way (south of Kidlington Roundabout)	18,146	358	18,478	353

Link Location	Dec. 22		Oct. 23	
	Total	HGV	Total	HGV
5. Oxford Road (between Kidlington Roundabout and The Broadway)	8,303	0	8,195	0
6. Oxford Road (between Park and Ride and proposed PR6b access)	19,705	1,106	19,464	1,089
7. Oxford Road (between proposed PR6b access and proposed PR6a access)	19,618	1,106	19,454	1,089
8. Oxford Road (between proposed PR6a access and proposed signal junction)	19,388	1,106	18,976	1,089
9. Oxford Road (between proposed signal junction and Croudace Proposed Access)	19,906	1,106	19,815	1,089
10. Oxford Road (between Croudace Proposed Access and Five Mile Drive)	20,207	1,106	20,132	1,089
11. Banbury Road (between Five Mile Drive and Harbord Road)	20,618	1,114	20,563	1,097
12. Banbury Road (between Harbord Road and Harefields	20,357	1,114	20,290	1,097
13. Banbury Road (between Harefields and Cutteslowe Roundabout)	21,775	1,130	21,707	1,112
14. A40(E) (east of Cutteslowe Roundabout)	35,626	1,389	36,810	1,367
15. Banbury Road (between Cutteslowe Roundabout and Davenant Road)	18,987	904	19,044	890
16. A40(W) (between Cutteslowe Roundabout and Blandford Avenue)	27,498	537	28,788	528
2031 + Committed Development + PR Sites (Excluding PR6a)				
1. A420 Oxford Road (between Kidlington Roundabout and Sainsburys)	20,224	1,251	21,360	1,221
2. Bicester Road (north of Kidlington Roundabout)	11,400	404	11,563	412
3. Oxford Road (between Kidlington Roundabout and Park and Ride)	19,007	1,259	19,132	1,137
4. A4260 Frieze Way (south of Kidlington Roundabout)	16,301	259	17,792	435
5. Oxford Road (between Kidlington Roundabout and The Broadway)	7,556	0	6,983	0
6. Oxford Road (between Park and Ride and proposed PR6b access)	18,995	992	18,282	1,145
7. Oxford Road (between proposed PR6b access and proposed PR6a access)	17,615	1,282	16,828	1,137
8. Oxford Road (between proposed PR6a access and proposed signal junction)	18,072	1,282	17,306	1,137
9. Oxford Road (between proposed signal junction and Croudace Proposed Access)	19,177	1,267	18,507	1,122
10. Oxford Road (between Croudace Proposed Access and Five Mile Drive)	19,586	1,267	18,912	1,129
11. Banbury Road (between Five Mile Drive and Harbord Road)	19,798	1,289	19,127	1,137
12. Banbury Road (between Harbord Road and Harefields	19,624	1,289	18,926	1,137
13. Banbury Road (between Harefields and Cutteslowe Roundabout)	20,813	1,289	20,202	1,152
14. A40(E) (east of Cutteslowe Roundabout)	30,745	1,549	31,410	1,549
15. Banbury Road (between Cutteslowe Roundabout and Davenant Road)	16,540	908	16,304	900
16. A40(W) (between Cutteslowe Roundabout and Blandford Avenue)	24,555	617	23,221	575
2031 + Committed Development + PR Sites + PR6a				
1. A420 Oxford Road (between Kidlington Roundabout and Sainsburys)	20,536	1,251	21,648	1,221
2. Bicester Road (north of Kidlington Roundabout)	11,417	404	11,584	412
3. Oxford Road (between Kidlington Roundabout and Park and Ride)	19,799	1,259	20,006	1,137
4. A4260 Frieze Way (south of Kidlington Roundabout)	16,737	259	18,318	435
5. Oxford Road (between Kidlington Roundabout and The Broadway)	7,584	-	7,022	-
6. Oxford Road (between Park and Ride and proposed PR6b access)	19,792	992	19,162	1,145
7. Oxford Road (between proposed PR6b access and proposed PR6a access)	18,412	1,282	17,708	1,137
8. Oxford Road (between proposed PR6a access and proposed signal junction)	18,639	1,282	17,708	1,137
9. Oxford Road (between proposed signal junction and Croudace Proposed Access)	20,268	1,267	19,758	1,122
10. Oxford Road (between Croudace Proposed Access and Five Mile Drive)	20,676	1,267	20,174	1,129
11. Banbury Road (between Five Mile Drive and Harbord Road)	20,844	1,289	20,301	1,137
12. Banbury Road (between Harbord Road and Harefields	20,670	1,289	20,100	1,137

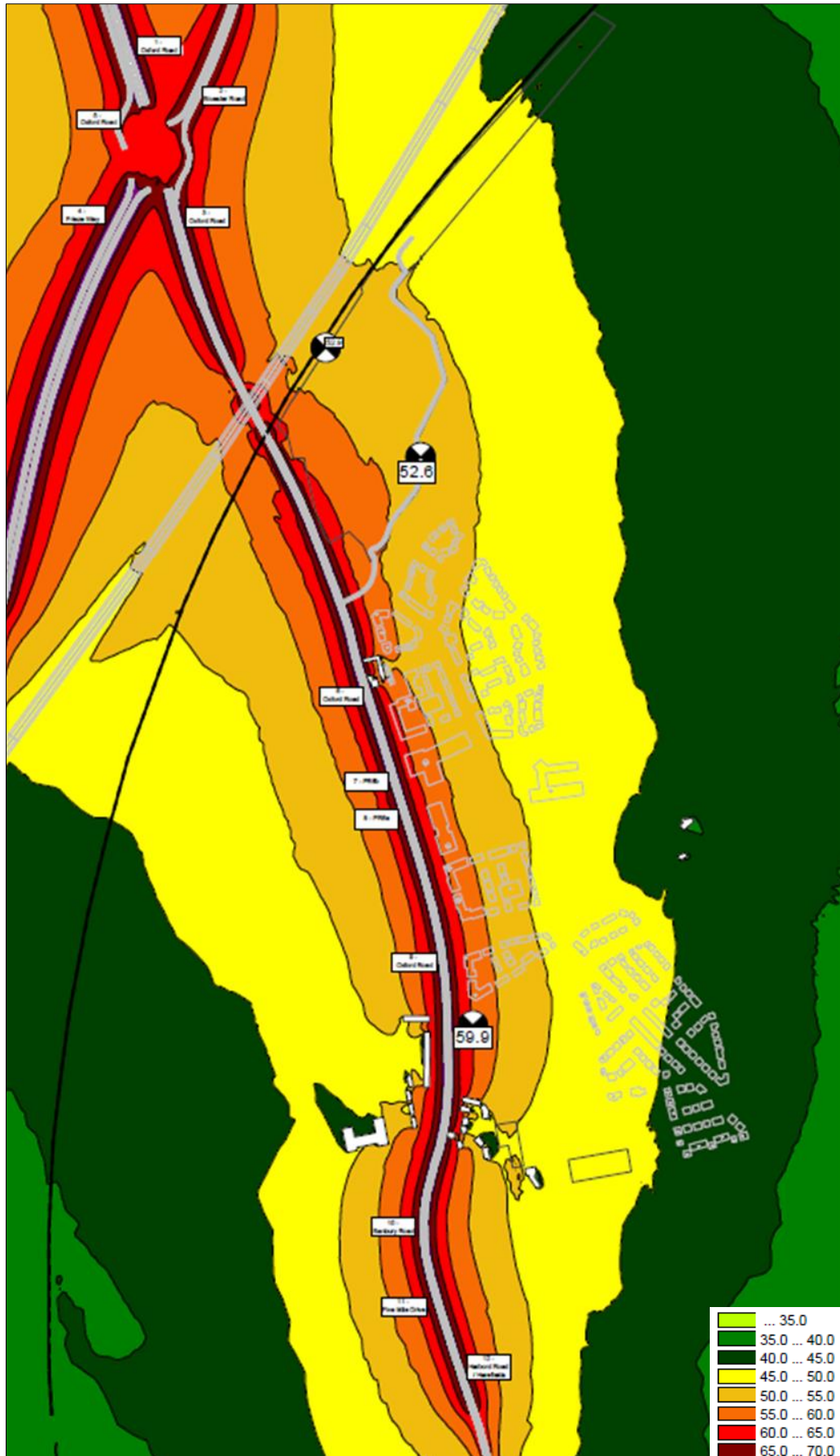| Link Location	Dec. 22		Oct. 23	
	Total	HGV	Total	HGV
13. Banbury Road (between Harefields and Cutteslowe Roundabout)	21,842	1,289	21,360	1,152
14. A40(E) (east of Cutteslowe Roundabout)	30,942	1,549	31,635	1,549
15. Banbury Road (between Cutteslowe Roundabout and Davenant Road)	17,132	908	17,025	900
16. A40(W) (between Cutteslowe Roundabout and Blandford Avenue)	24,883	617	23,438	575

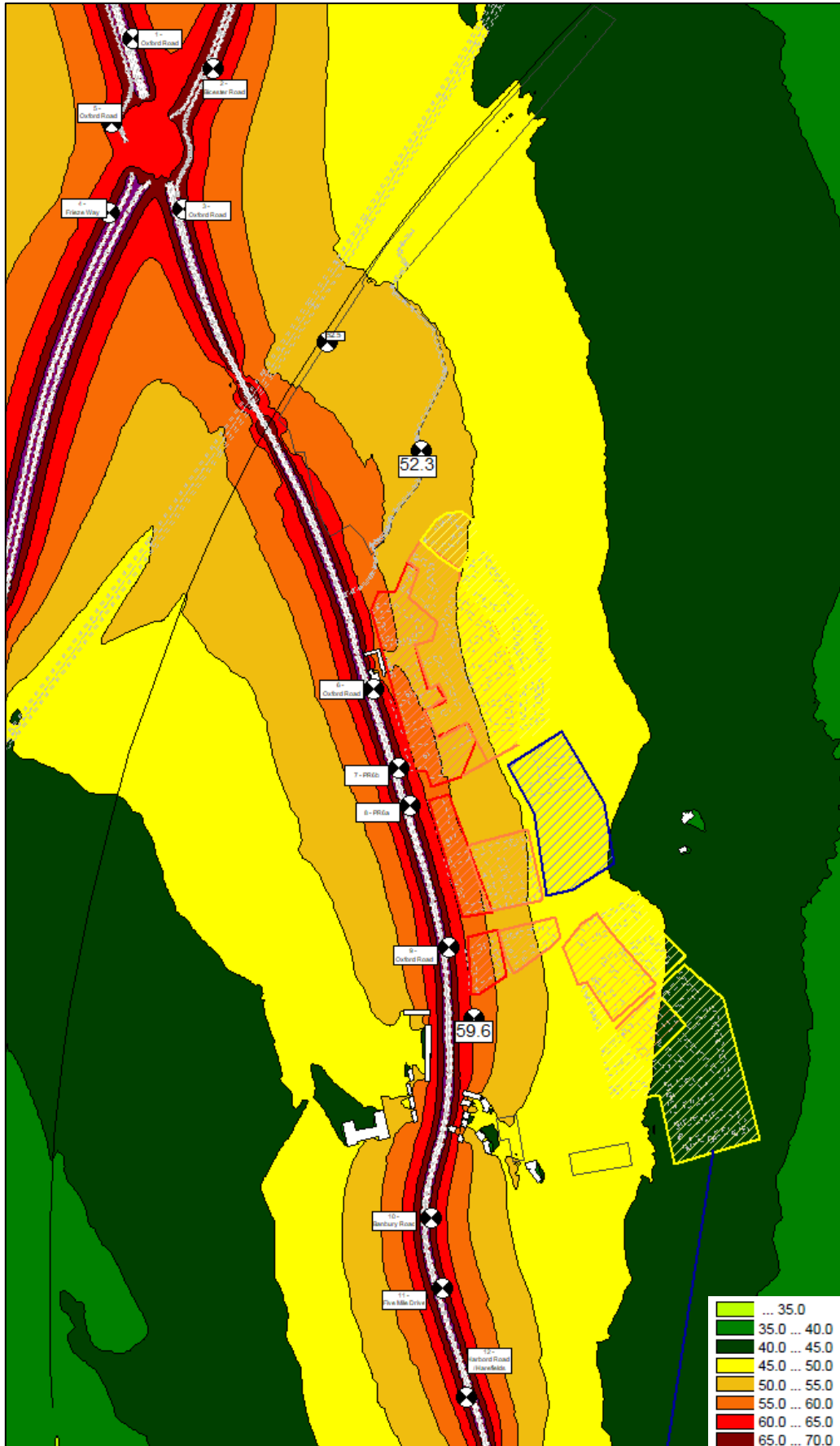**Figure 1: Sitewide noise levels, 2025 baseline (2022 dataset)**

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Figure 2: Sitewide noise levels, 2025 Baseline + Committed Dev. (2023 dataset)

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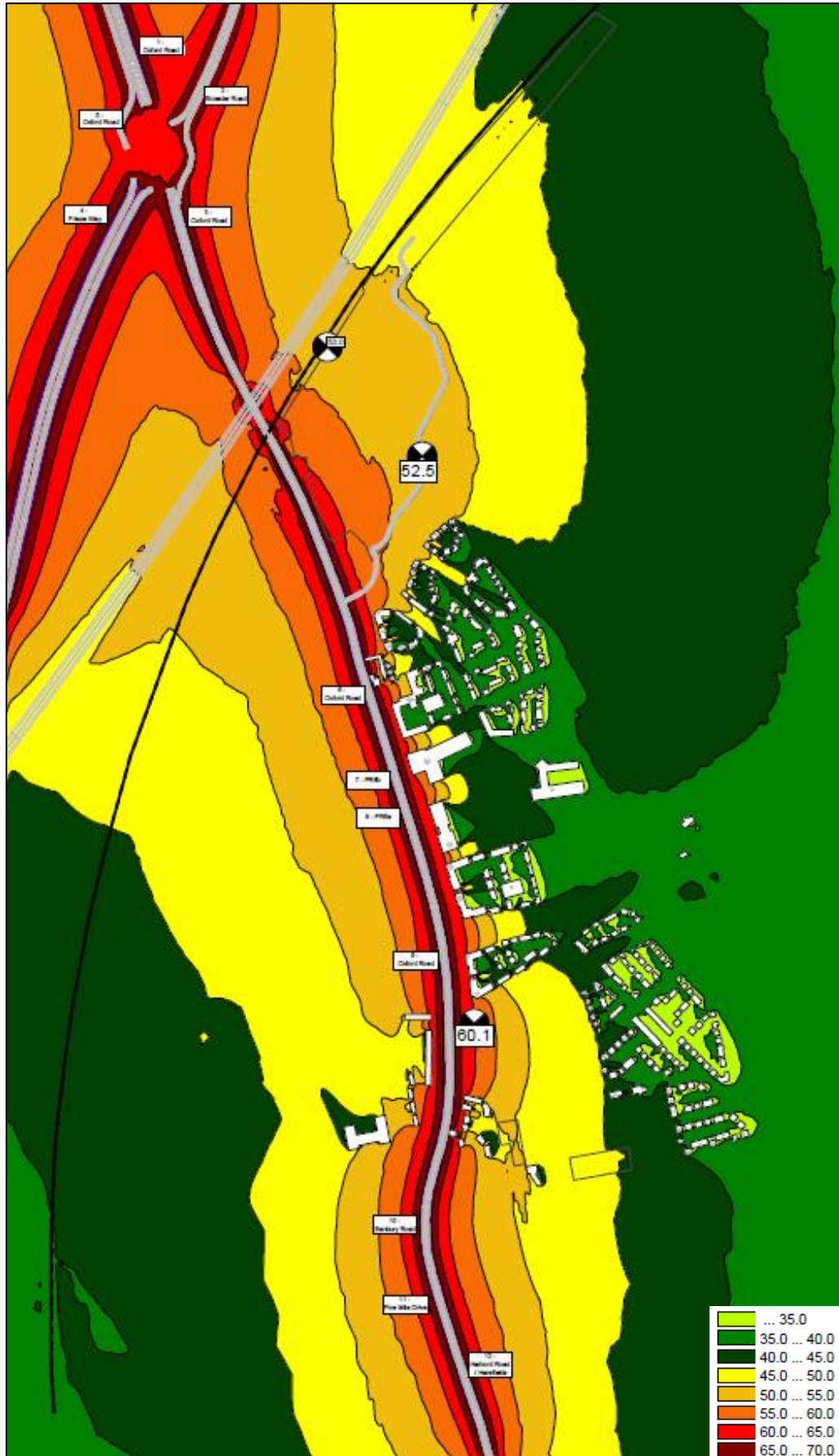
Figure 3: Sitewide noise levels, 2025 Baseline + Committed Dev. + PR6a (2022 dataset)

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	60.0 ... 65.0
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Design
Infrastructure
Consulting
Engineers

Dice Environmental Ltd
Company No: 12839366
VAT Reg No: 374 6003 06

Registered Address:
Bridge House
9-13 Holbrook Lane
Coventry CV6 4AD
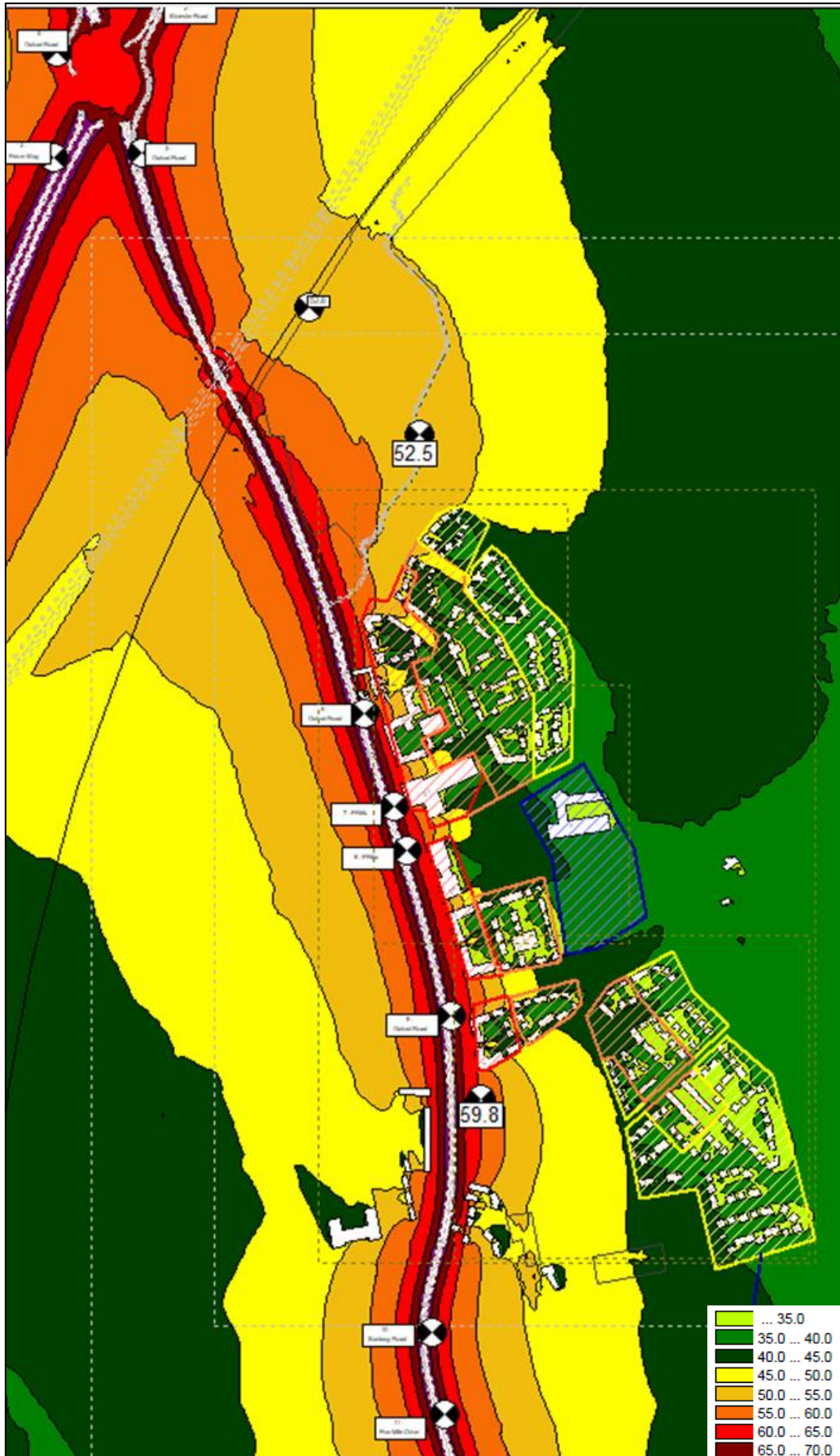
Figure 4: Sitewide noise levels, 2025 Baseline + Committed Dev. + PR6a (2023 dataset)

Legend:
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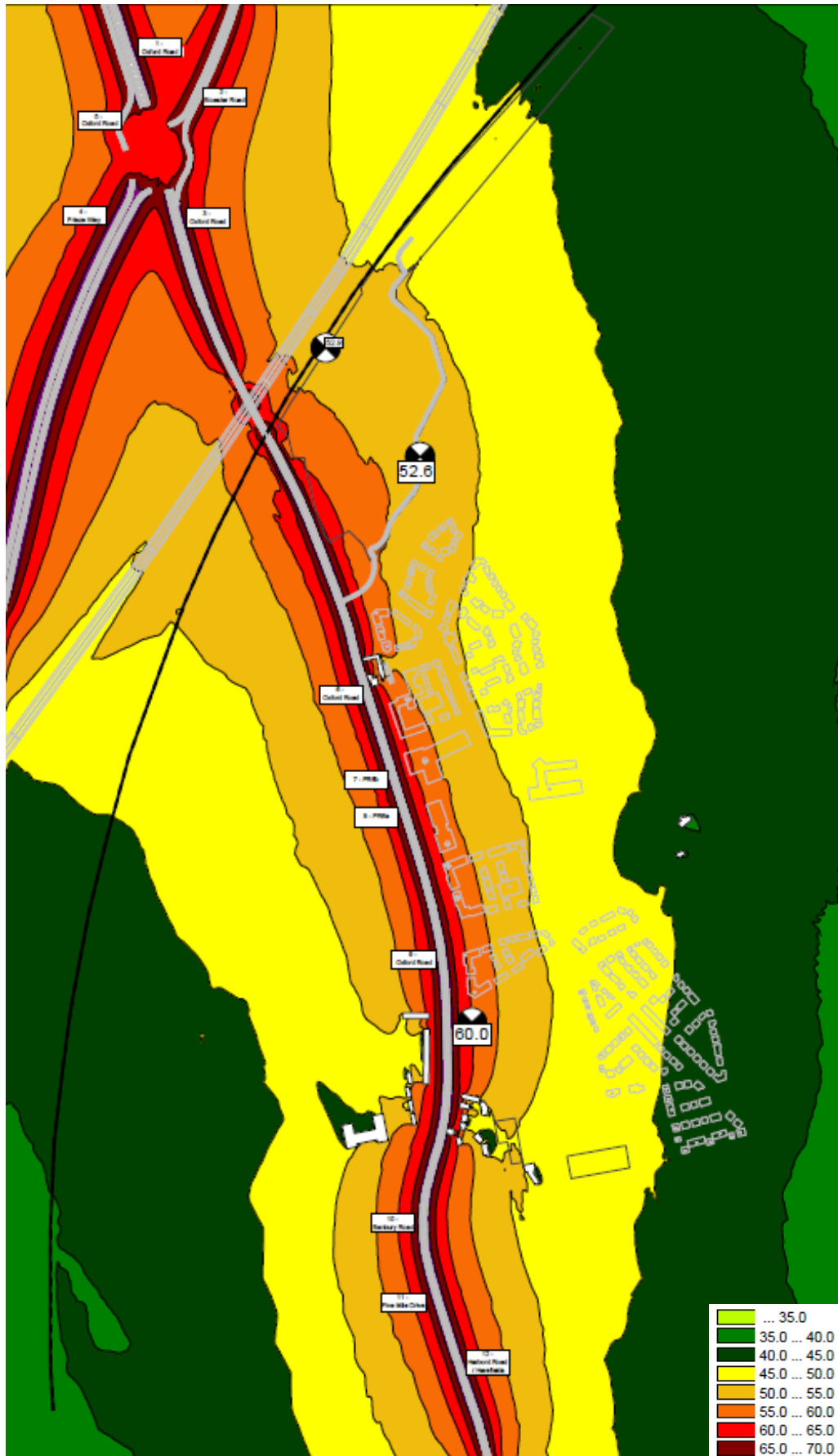
Figure 5: Sitewide noise levels, 2031 + Committed Dev. + PR Sites (Excluding PR6a) (2022 dataset)

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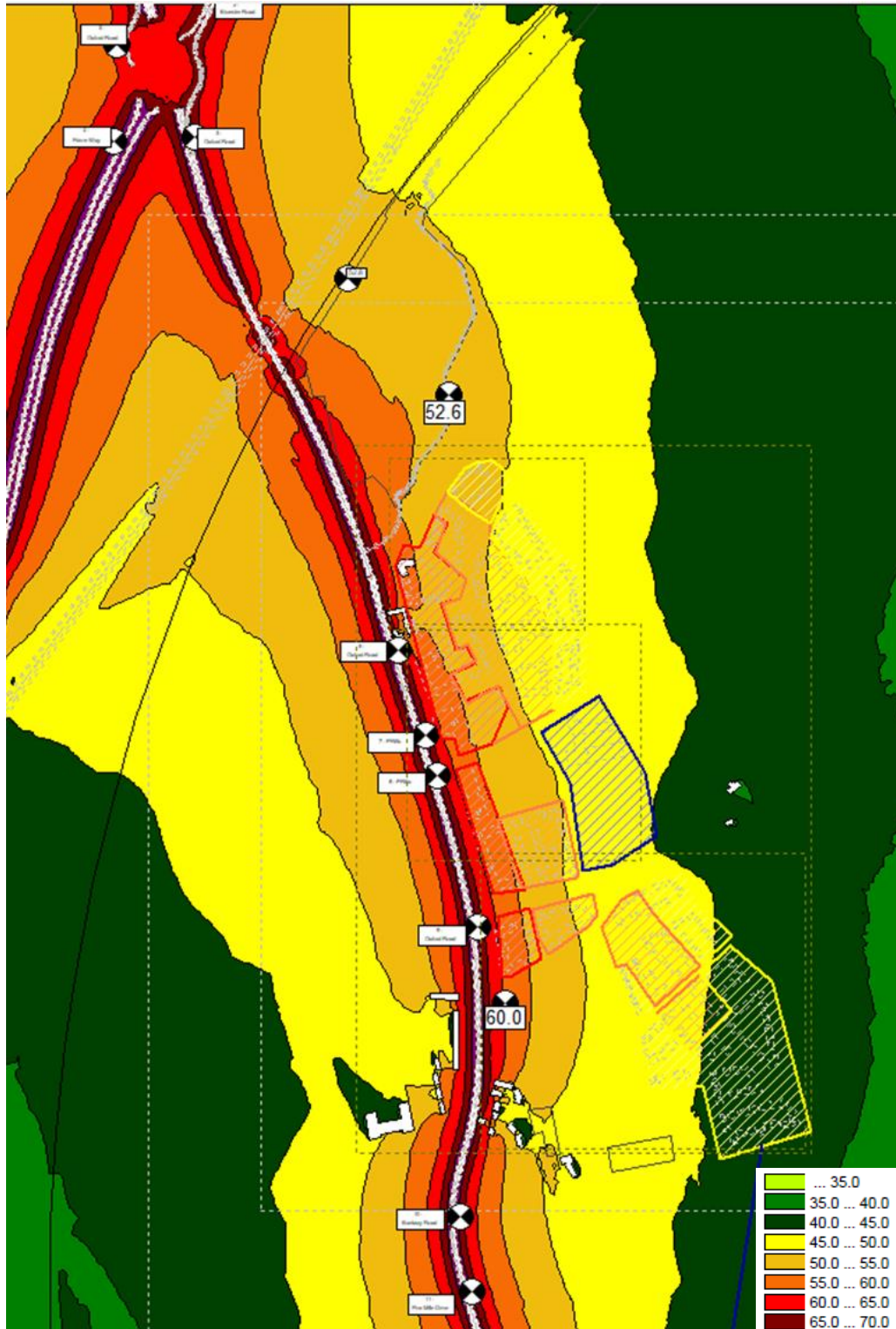Bridge House
9-13 Holbrook Lane
Coventry CV6 4AD

Figure 6: Sitewide noise levels, 2031 + Committed Dev. + PR Sites (Excluding PR6a) (2023 dataset)

Figure 7: Sitewide noise levels, 2031 + Committed Dev. + PR Sites + PR6a (2022 dataset)

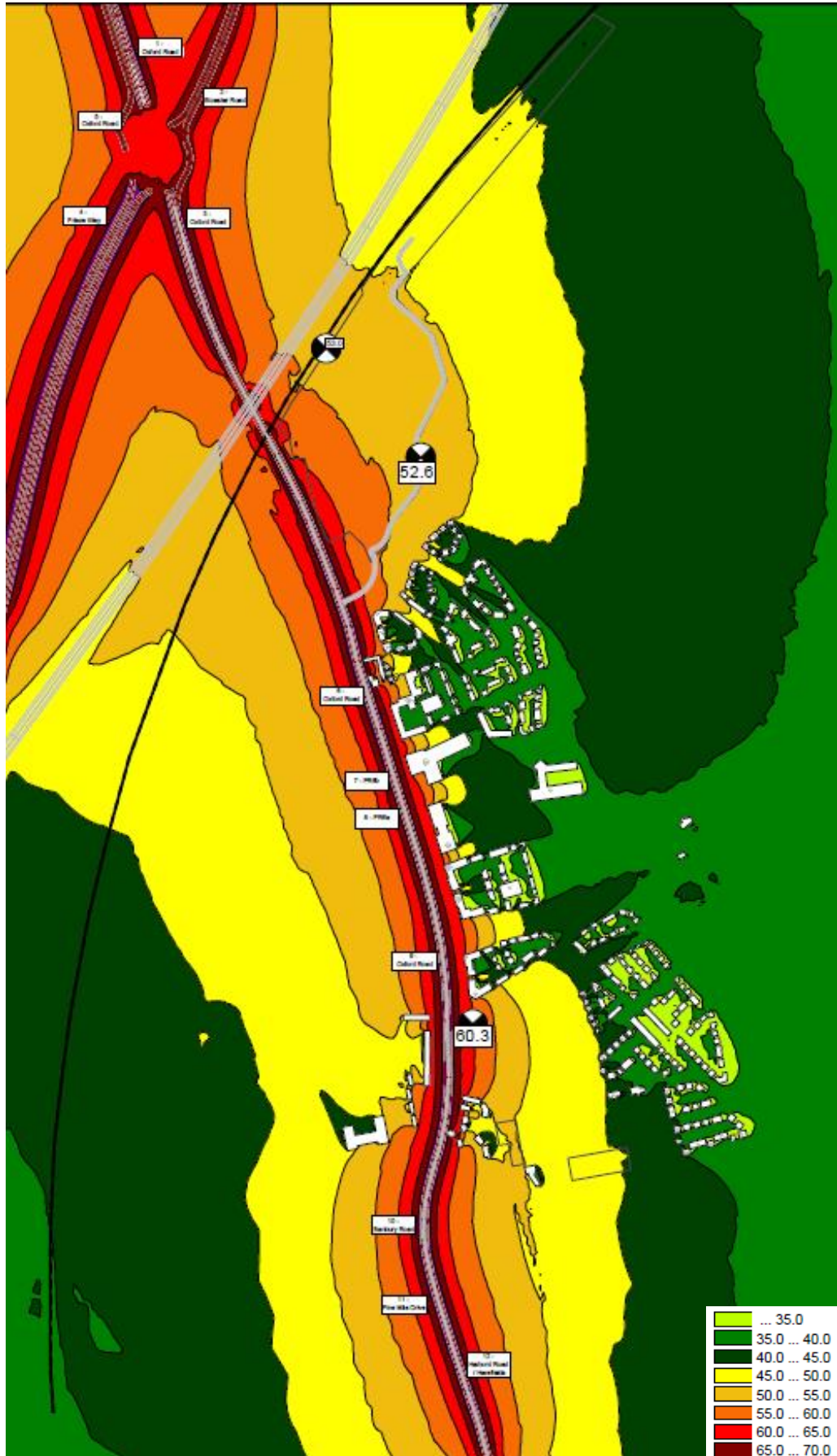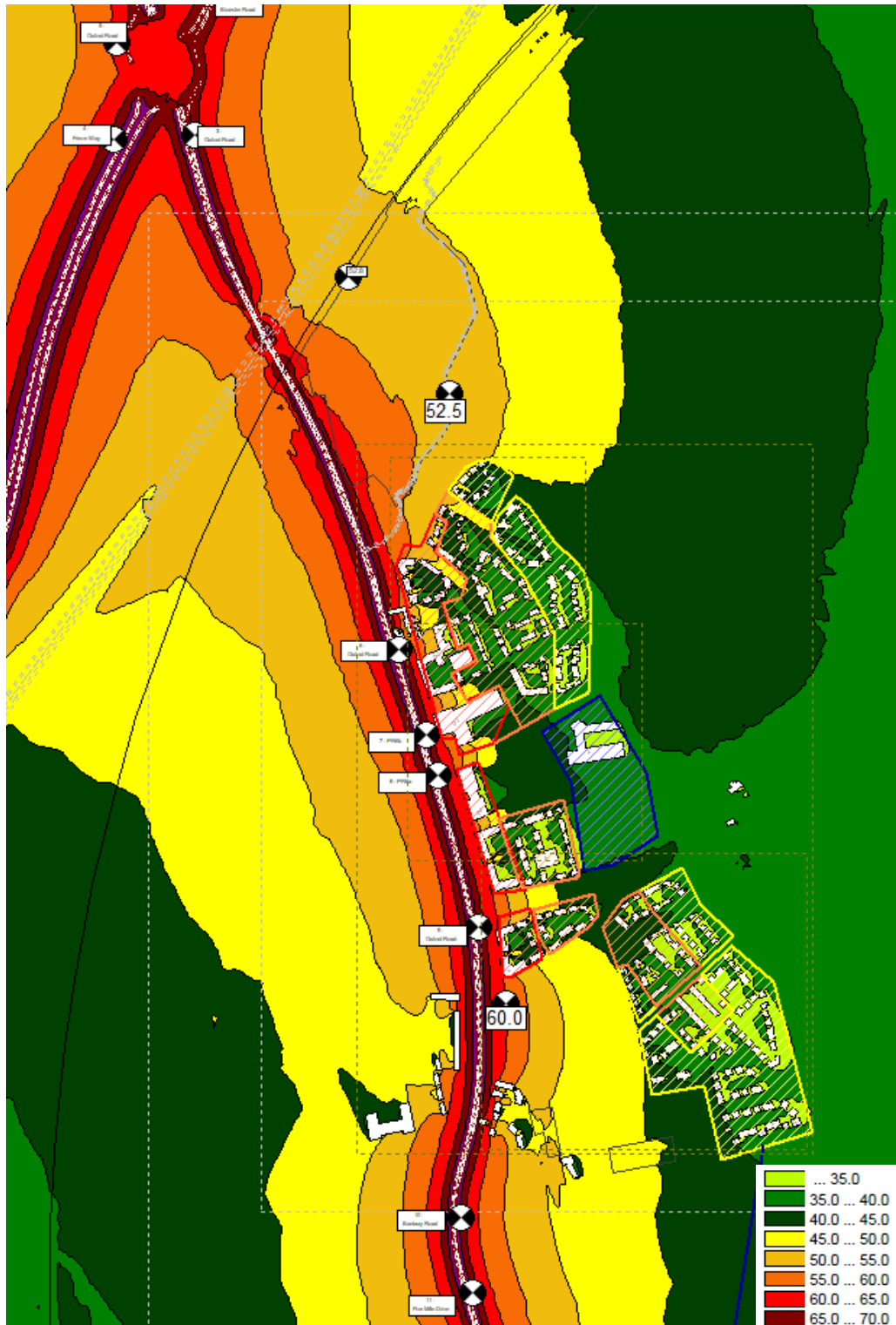|	
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Figure 8: Sitewide noise levels, 2031 + Committed Dev. + PR Sites + PR6a (2023 dataset)

Legend:

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