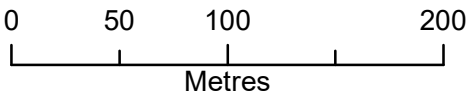




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Legend

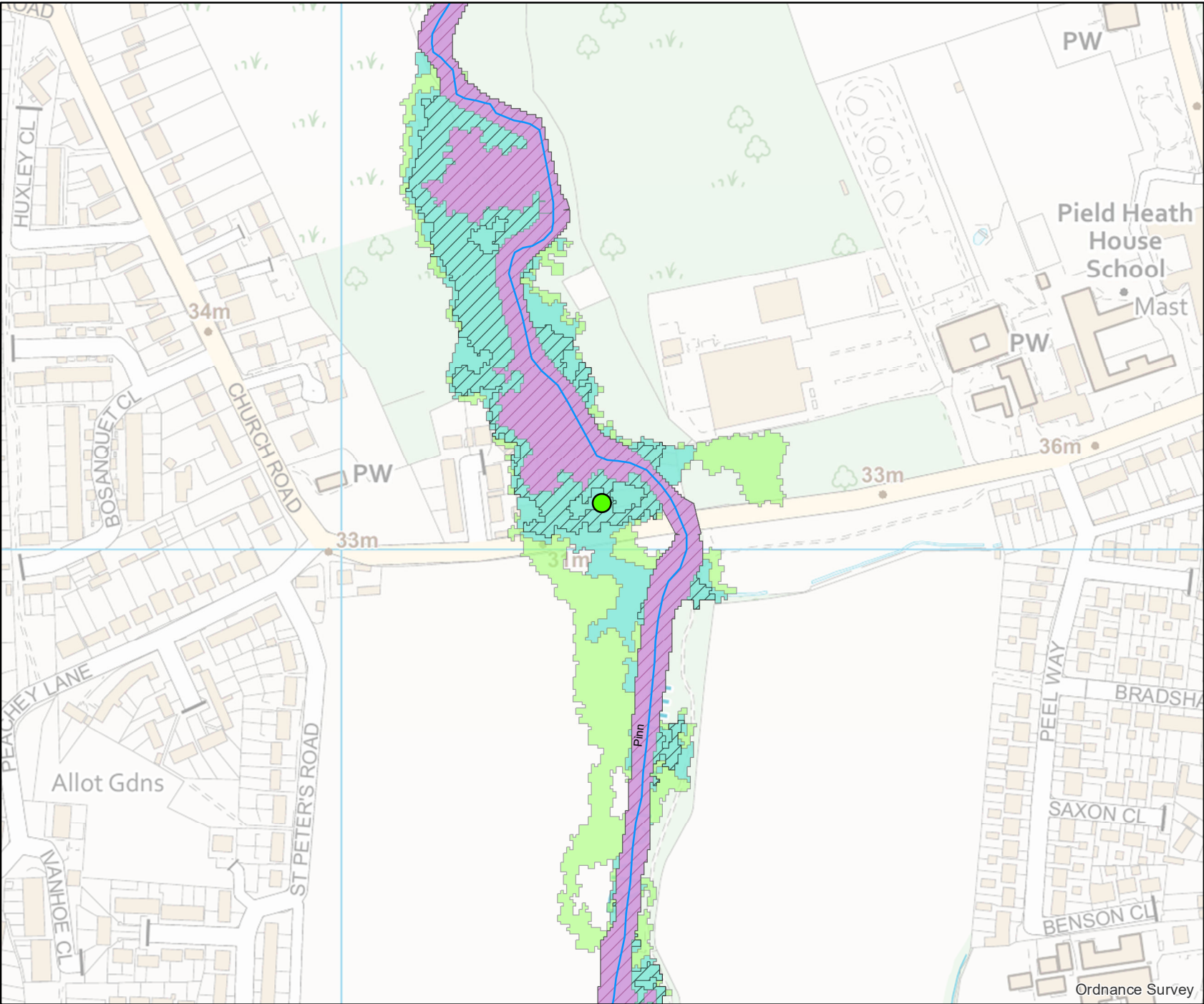
- Main Rivers
- Site location

Defended Flood Outlines

- 1 in 2 year (50%) Defended
- 1 in 5 year (20%) Defended
- 1 in 10 year (10%) Defended
- 1 in 20 year (5%) Defended

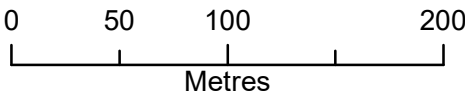
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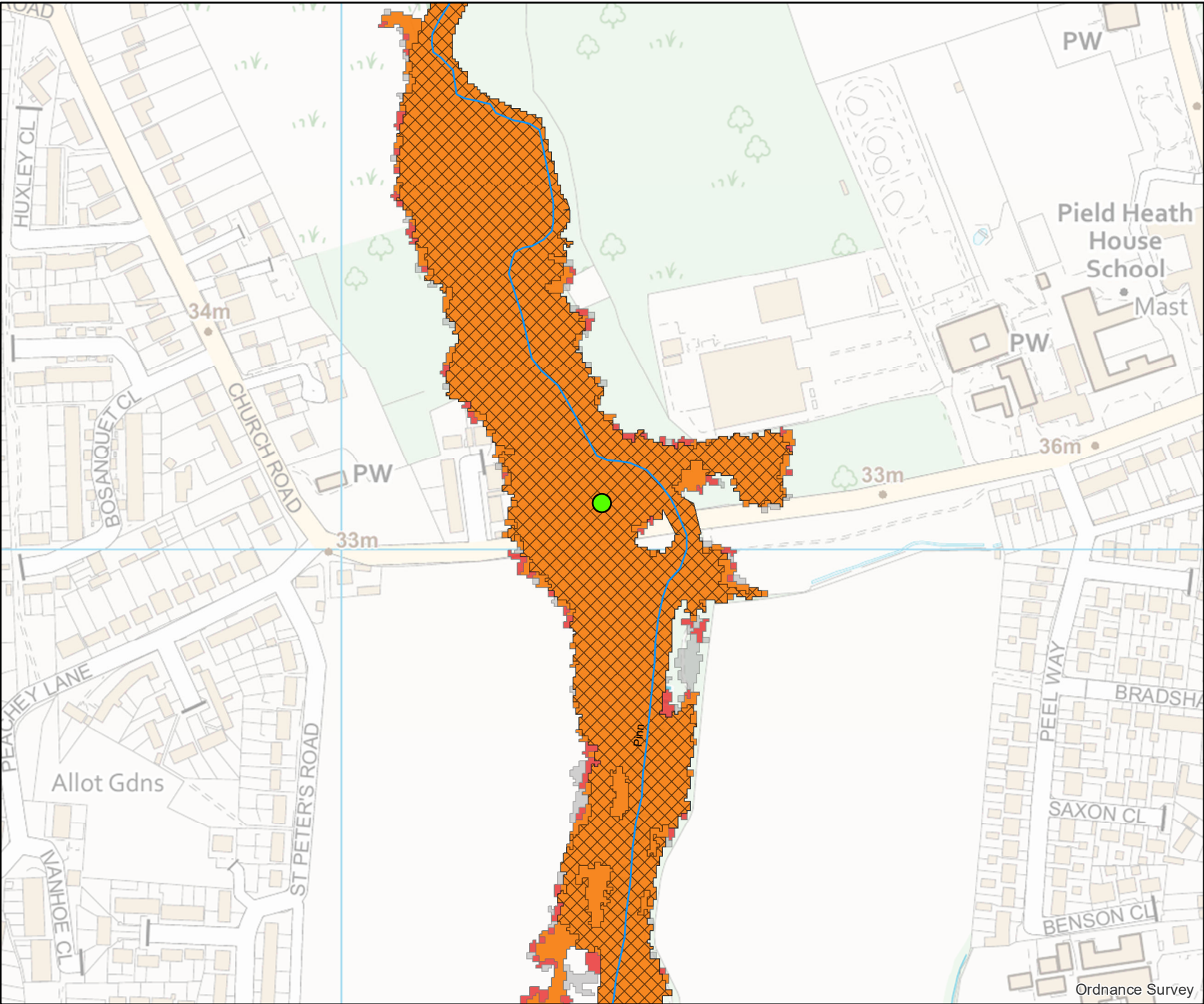
- Main Rivers
- Site location

Defended Flood Outlines

- 1 in 30 year (3.33%) Defended
- 1 in 50 year (2%) Defended
- 1 in 75 year (1.33%) Defended
- 1 in 100 year (1%) Defended

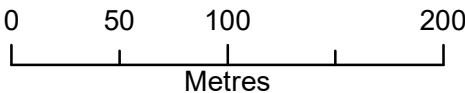
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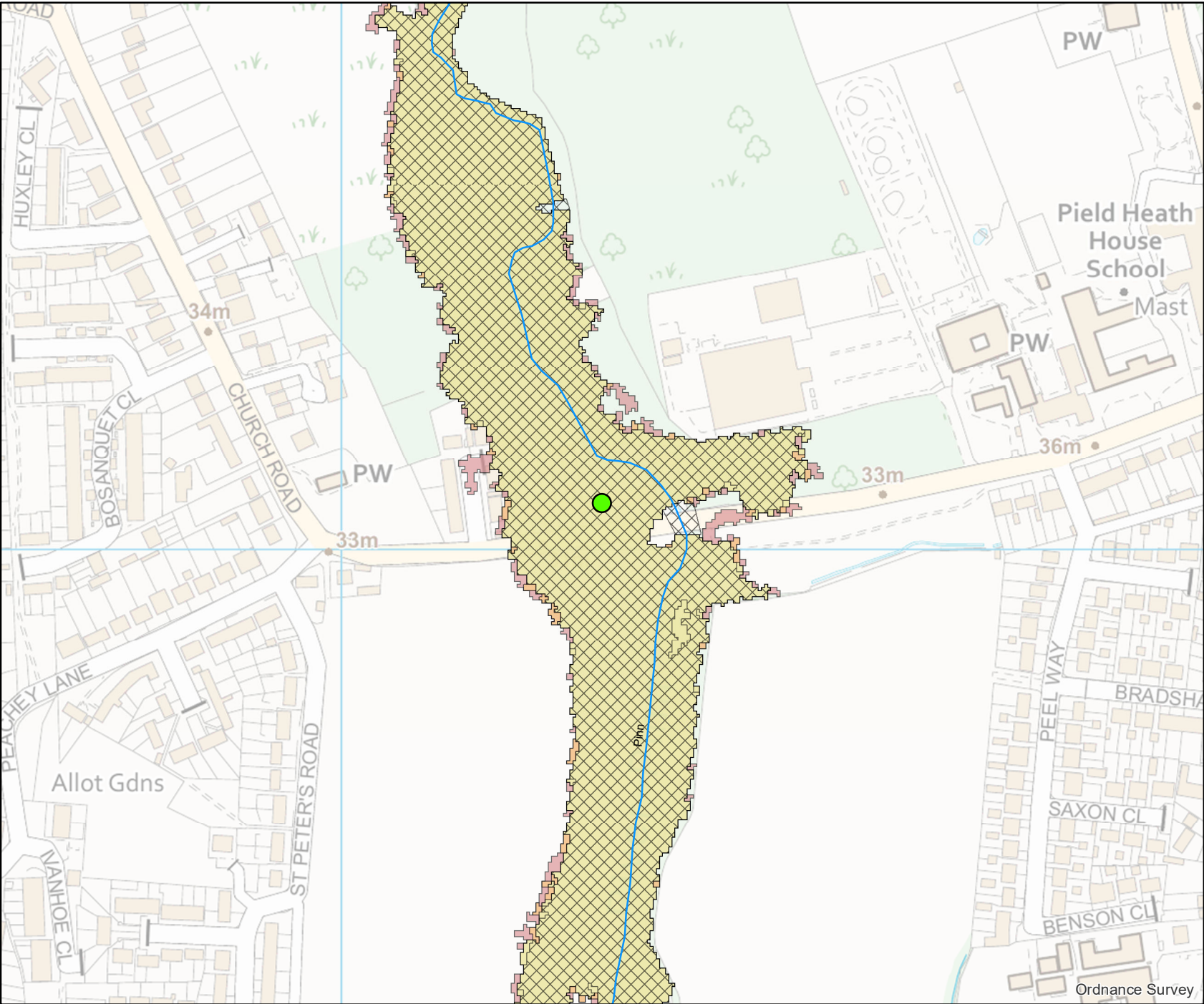
- Main Rivers
- Site location

Defended Flood Outlines

- 1 in 100 year + 20% (*CC) Defended
- 1 in 100 year + 25% (*CC) Defended
- 1 in 100 year + 35% (*CC) Defended
- 1 in 100 year + 70% (*CC) Defended

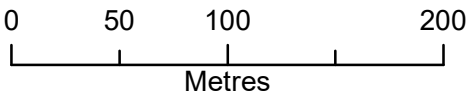
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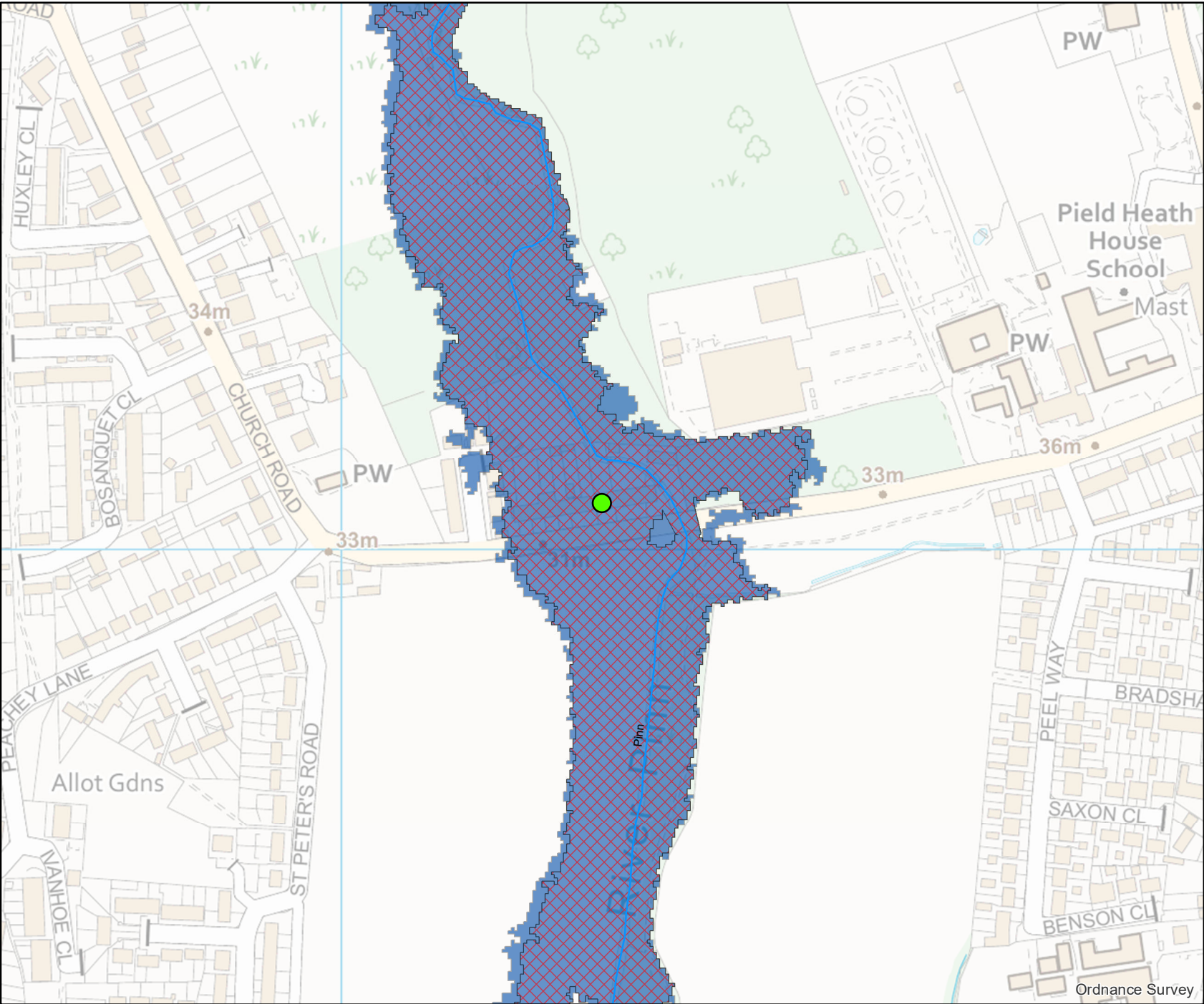
- Main Rivers
- Site location

Defended Flood Outlines

- 1 in 250 year (0.4%) Defended
- 1 in 1000 year (0.1%) Defended

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015). This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences. Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence. <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

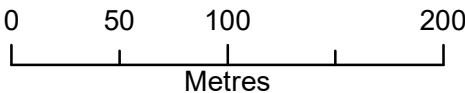
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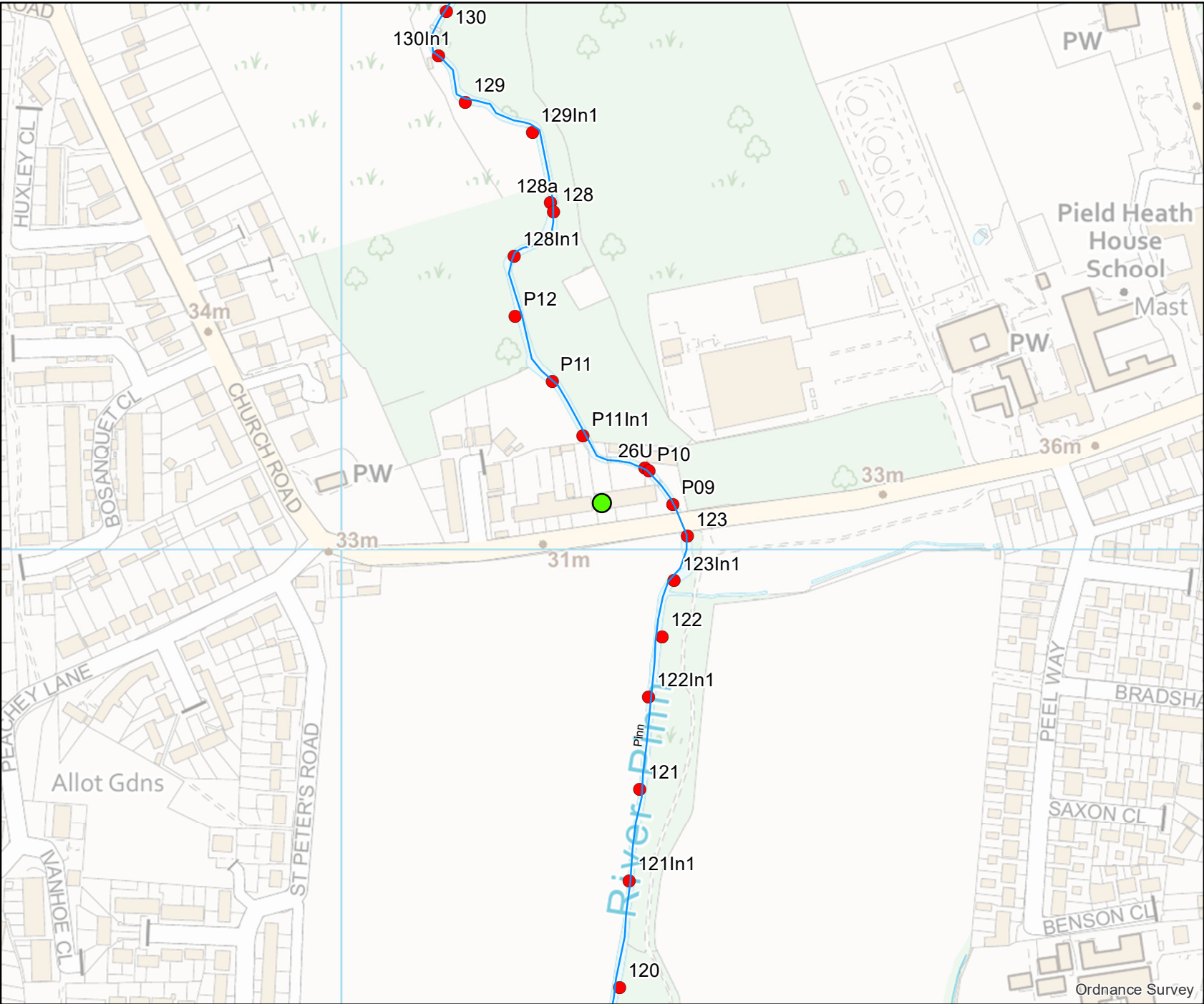
- Main Rivers
- Site location

1D Node Results

- Nodes

The data in this map has been extracted from the River Pinn Mapping Study (JBA, 2015). This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites within the catchment. Modelled outlines take into account catchment wide defences. Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence. <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

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The following information has been extracted from the River Pinn Mapping Study (JBA, 2015)

Flood risk data requests including an allowance for climate change will be based on the 1 in 100 flood plus 20% allowance for climate change, unless otherwise stated. You should refer to 'Flood risk assessments: climate change allowances' to check if this allowance is still appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

<https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

Caution:

This model has been designed for catchment wide flood risk mapping. It should be noted that it was not created to produce flood levels for specific development sites across the entire catchment.

All flood levels are given in metres Above Ordnance Datum (mAOD)

All flows are given in cubic metres per second (cumecs)

MODELLED FLOOD LEVEL

Node Label	Easting	Northing	Return Period													
			2 yr	5 yr	10 yr	20 yr	30 yr	50 yr	75 yr	100 yr	100yr + 20%	100yr + 25%	100yr + 35%	100yr + 70%	250 yr	1000yr
130	506068	182348	30.86	31.05	31.13	31.19	31.22	31.26	31.29	31.31	31.36	31.38	31.41	31.48	31.39	31.55
130In1	506063	182320	30.84	31.02	31.10	31.16	31.19	31.22	31.25	31.27	31.31	31.32	31.34	31.39	31.33	31.43
129	506080	182290	30.83	31.01	31.10	31.16	31.19	31.23	31.26	31.28	31.33	31.35	31.37	31.45	31.36	31.50
129In1	506124	182270	30.79	30.97	31.07	31.15	31.18	31.22	31.24	31.26	31.30	31.31	31.32	31.36	31.32	31.39
128a	506135	182224	30.74	30.93	31.04	31.12	31.16	31.21	31.24	31.27	31.32	31.34	31.36	31.43	31.35	31.49
128	506138	182219	30.72	30.90	31.01	31.09	31.13	31.18	31.22	31.24	31.30	31.31	31.33	31.40	31.32	31.45
128In1	506112	182190	30.68	30.86	30.97	31.05	31.09	31.14	31.18	31.20	31.26	31.27	31.29	31.36	31.28	31.42
P12	506113	182151	30.65	30.83	30.94	31.01	31.04	31.09	31.12	31.14	31.20	31.21	31.23	31.29	31.22	31.34
P11	506137	182109	30.61	30.81	30.93	31.00	31.04	31.09	31.12	31.14	31.19	31.20	31.22	31.29	31.21	31.33
P11In1	506157	182074	30.57	30.79	30.91	30.98	31.02	31.06	31.08	31.10	31.15	31.16	31.17	31.22	31.16	31.26
26U	506197	182053	30.51	30.74	30.88	30.98	31.03	31.08	31.12	31.14	31.20	31.21	31.23	31.30	31.22	31.34
P10	506199	182051	30.35	30.59	30.76	30.92	30.98	31.05	31.09	31.12	31.18	31.19	31.21	31.28	31.20	31.33
P09	506215	182029	30.27	30.49	30.63	30.78	30.84	30.92	30.96	30.99	31.06	31.07	31.10	31.18	31.09	31.23
123	506224	182009	30.10	30.25	30.34	30.42	30.46	30.51	30.54	30.56	30.62	30.63	30.65	30.72	30.64	30.77
123In1	506215	181980	30.00	30.15	30.24	30.34	30.39	30.46	30.50	30.53	30.59	30.60	30.62	30.69	30.61	30.75
122	506208	181944	29.95	30.09	30.18	30.26	30.31	30.37	30.41	30.44	30.49	30.51	30.53	30.60	30.52	30.65
122In1	506199	181905	29.84	29.98	30.05	30.13	30.17	30.22	30.26	30.28	30.33	30.34	30.36	30.42	30.35	30.48
121	506193	181845	29.70	29.83	29.90	29.97	30.01	30.07	30.10	30.12	30.18	30.19	30.21	30.28	30.20	30.34
121In1	506186	181786	29.56	29.68	29.74	29.81	29.84	29.90	29.93	29.96	30.01	30.02	30.05	30.11	30.04	30.16
120	506180	181717	29.43	29.54	29.60	29.66	29.70	29.75	29.78	29.81	29.87	29.88	29.91	29.98	29.89	30.04

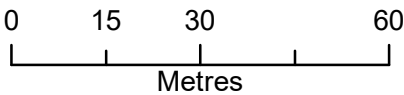
MODELLED FLOWS

				Return Period												
Node Label	Easting	Northing	2 yr	5 yr	10 yr	20 yr	30 yr	50 yr	75 yr	100 yr	100yr + 20%	100yr + 25%	100yr + 35%	100yr + 70%	250 yr	1000yr
130	506068	182348	7.71	9.42	10.64	12.25	13.16	14.52	15.51	16.27	18.46	19.01	20.01	23.21	19.45	25.48
130In1	506063	182320	7.71	9.42	10.65	12.25	13.16	14.50	15.48	16.25	18.49	19.09	20.19	23.81	19.58	26.94
129	506080	182290	7.71	9.23	9.91	11.09	11.90	13.07	13.90	14.52	16.10	16.49	17.19	19.58	16.79	21.61
129In1	506124	182270	7.94	9.44	9.63	9.78	10.26	11.17	11.97	12.63	14.80	15.41	16.50	19.88	15.91	22.69
128a	506135	182224	7.86	9.04	9.14	9.24	9.32	9.41	9.46	9.50	10.19	10.37	10.73	12.09	10.52	13.36
128	506138	182219	7.86	9.04	9.14	9.24	9.32	9.41	9.46	9.50	10.19	10.37	10.73	12.09	10.52	13.36
128In1	506112	182190	7.86	9.23	9.59	10.12	10.44	10.88	11.25	11.47	12.15	12.35	12.68	13.77	12.52	14.69
P12	506113	182151	7.86	9.66	10.66	11.82	12.46	13.32	13.91	14.33	15.34	15.65	16.15	17.73	15.89	19.00
P11	506137	182109	7.56	8.48	9.04	9.93	10.40	11.06	11.55	11.93	12.92	13.20	13.67	15.21	13.42	16.51
P11In1	506157	182074	7.77	8.39	8.84	9.86	10.61	11.82	12.63	13.22	14.72	15.12	15.81	17.96	15.44	19.73
26U	506197	182053	7.86	9.63	9.86	9.84	9.83	9.83	9.83	9.83	9.83	9.83	9.81	9.82	9.82	9.82
P10	506199	182051	7.86	9.63	9.86	9.84	9.83	9.83	9.83	9.83	9.83	9.83	9.81	9.82	9.82	9.82
P09	506215	182029	7.86	9.66	10.92	11.80	12.12	12.40	12.52	12.60	12.73	12.75	12.77	12.87	12.76	12.94
123	506224	182009	7.86	9.66	10.92	11.80	12.12	12.40	12.52	12.60	12.73	12.75	12.77	12.87	12.76	12.94
123In1	506215	181980	7.86	9.66	10.80	11.31	11.37	11.43	11.46	11.47	11.53	11.55	11.60	11.78	11.57	11.95
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121	506193	181845	8.08	9.90	11.21	12.67	13.52	14.69	15.39	15.91	17.02	17.27	17.76	19.23	17.51	20.41
121In1	506186	181786	8.08	9.90	11.21	12.69	13.62	14.94	15.68	16.18	17.43	17.75	18.34	20.25	18.02	21.87
120	506180	181717	8.08	9.84	11.08	12.47	13.31	14.54	15.33	15.84	17.03	17.32	17.82	19.32	17.56	20.61

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Legend

- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 2 year (50%) Defended

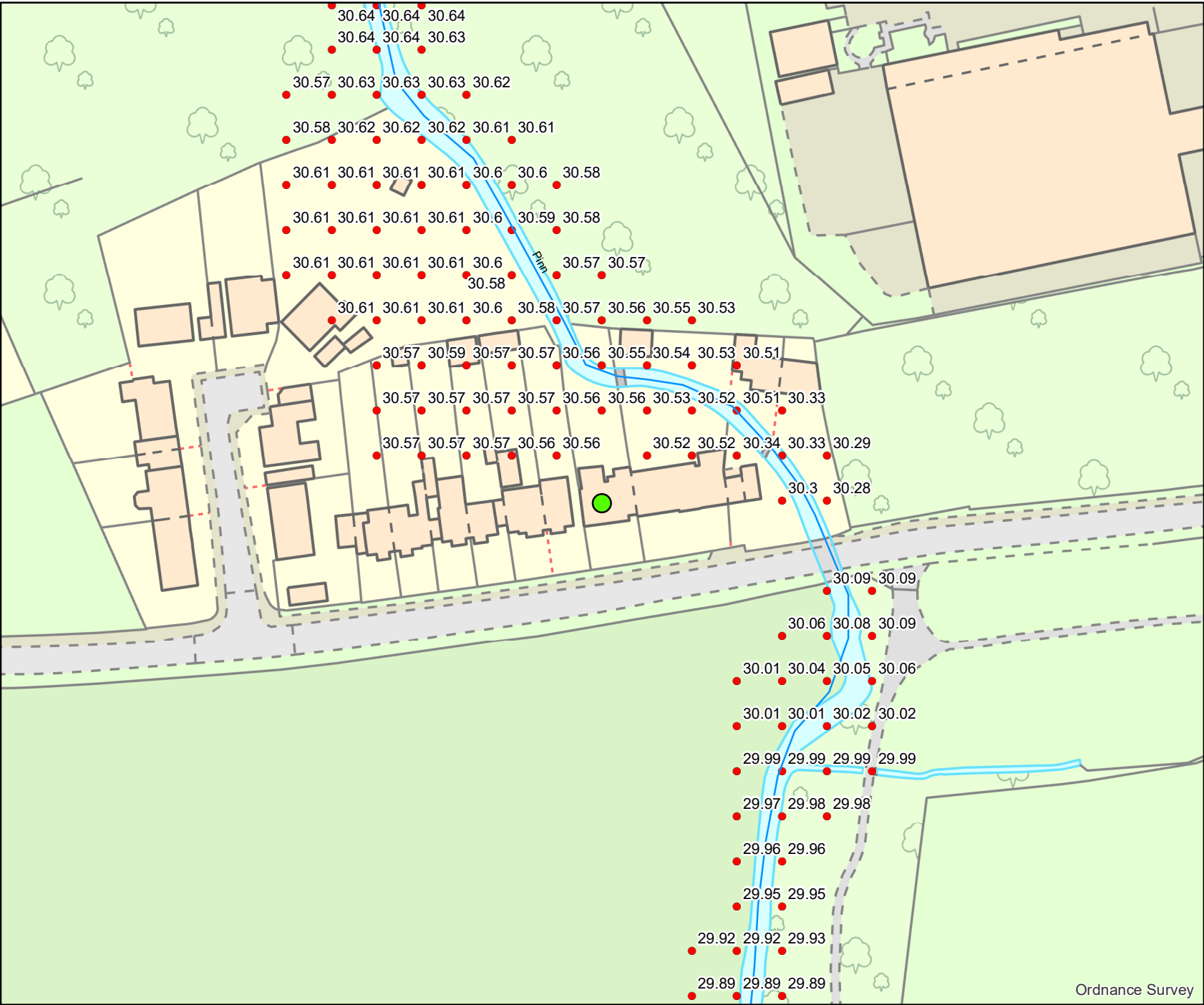
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Modelled outlines take into account catchment wide defences.

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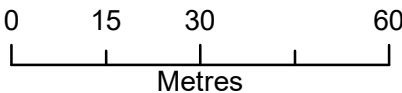
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Legend

- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 5 year (20%) Defended

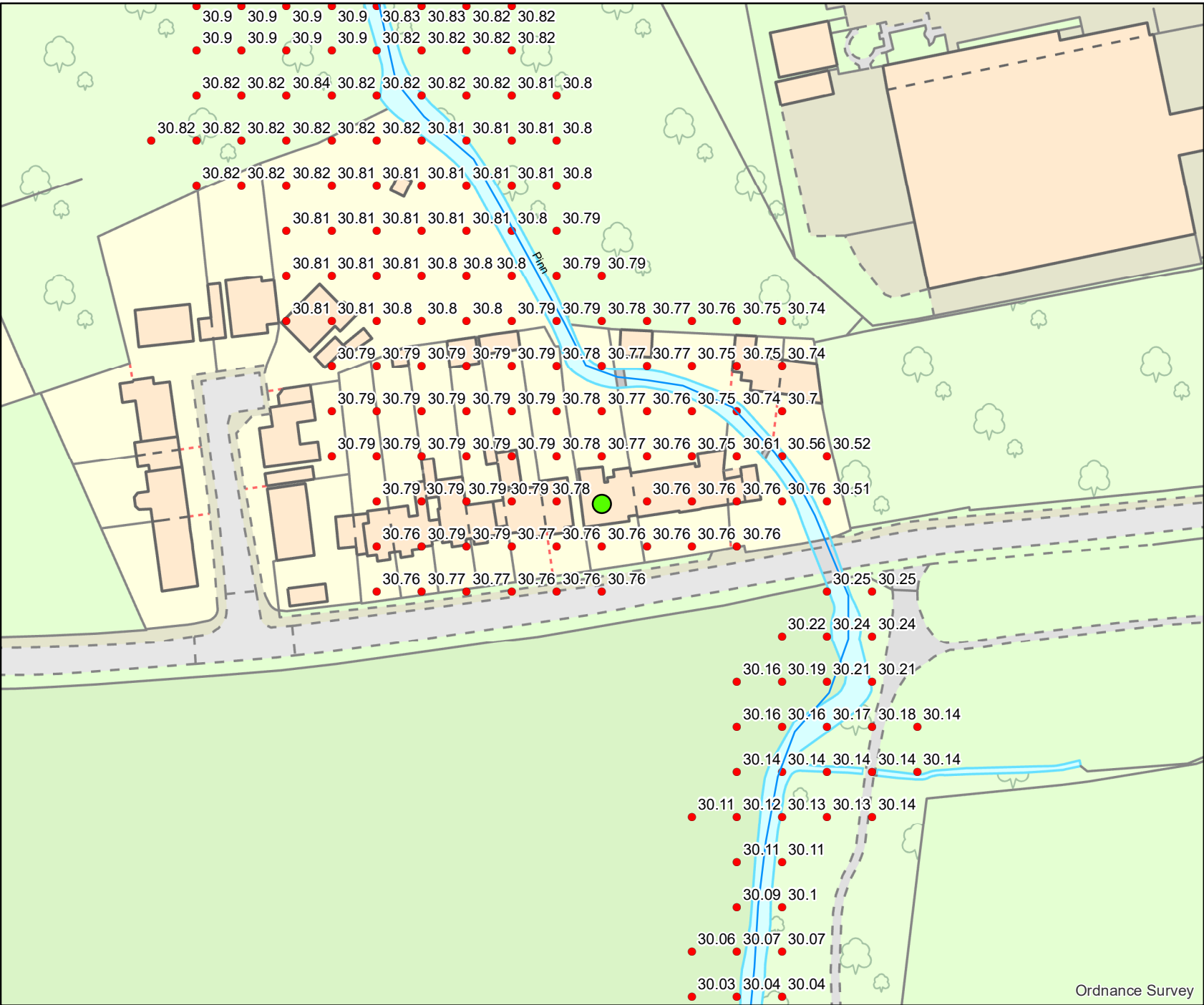
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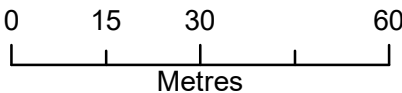


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Legend

- Main Rivers
- Site location

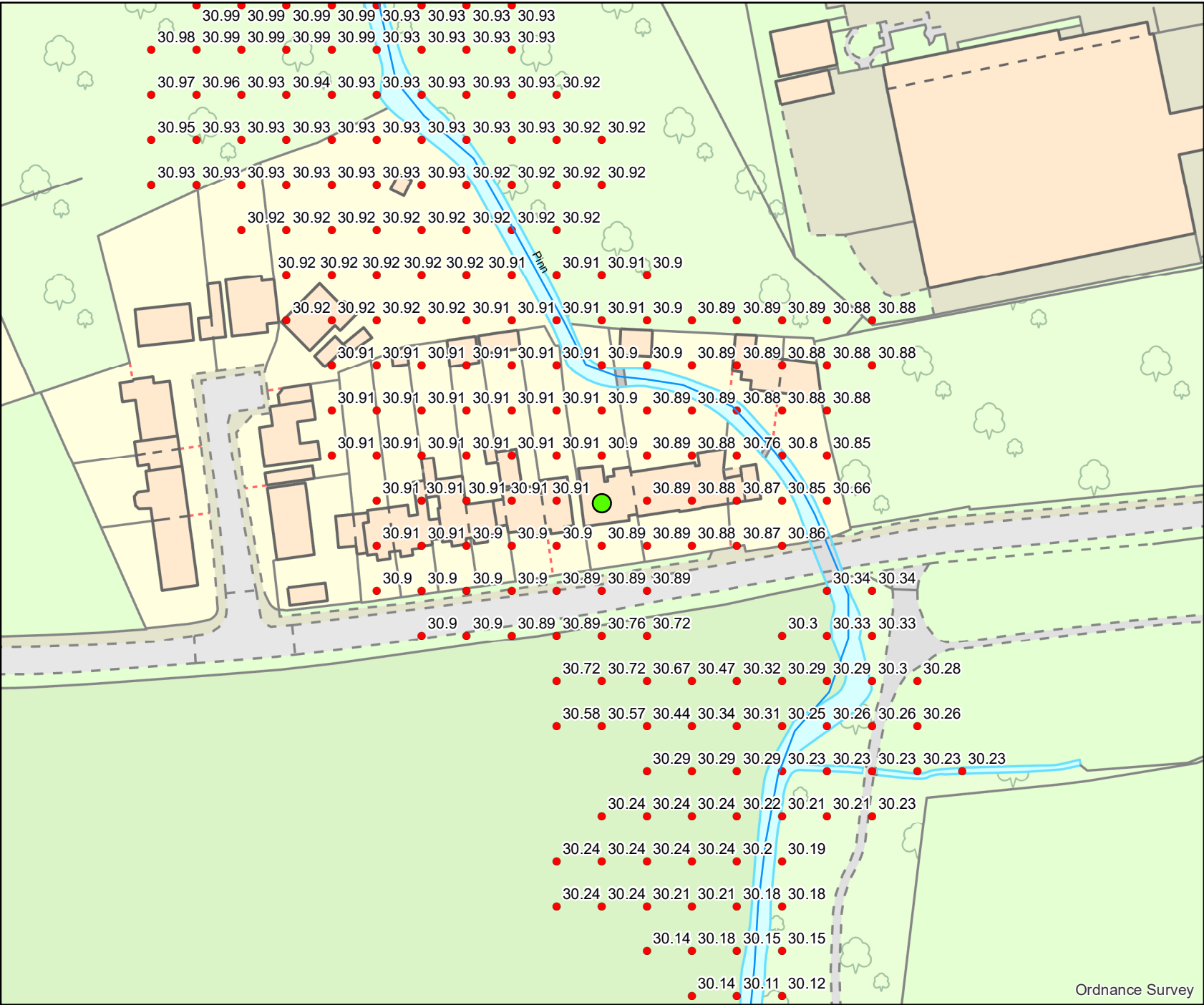
2D Node Results: Heights

- 1 in 10 year (10%) Defended

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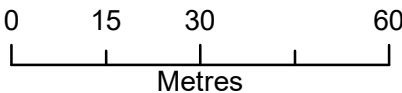
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Legend

- Main Rivers
- Site location

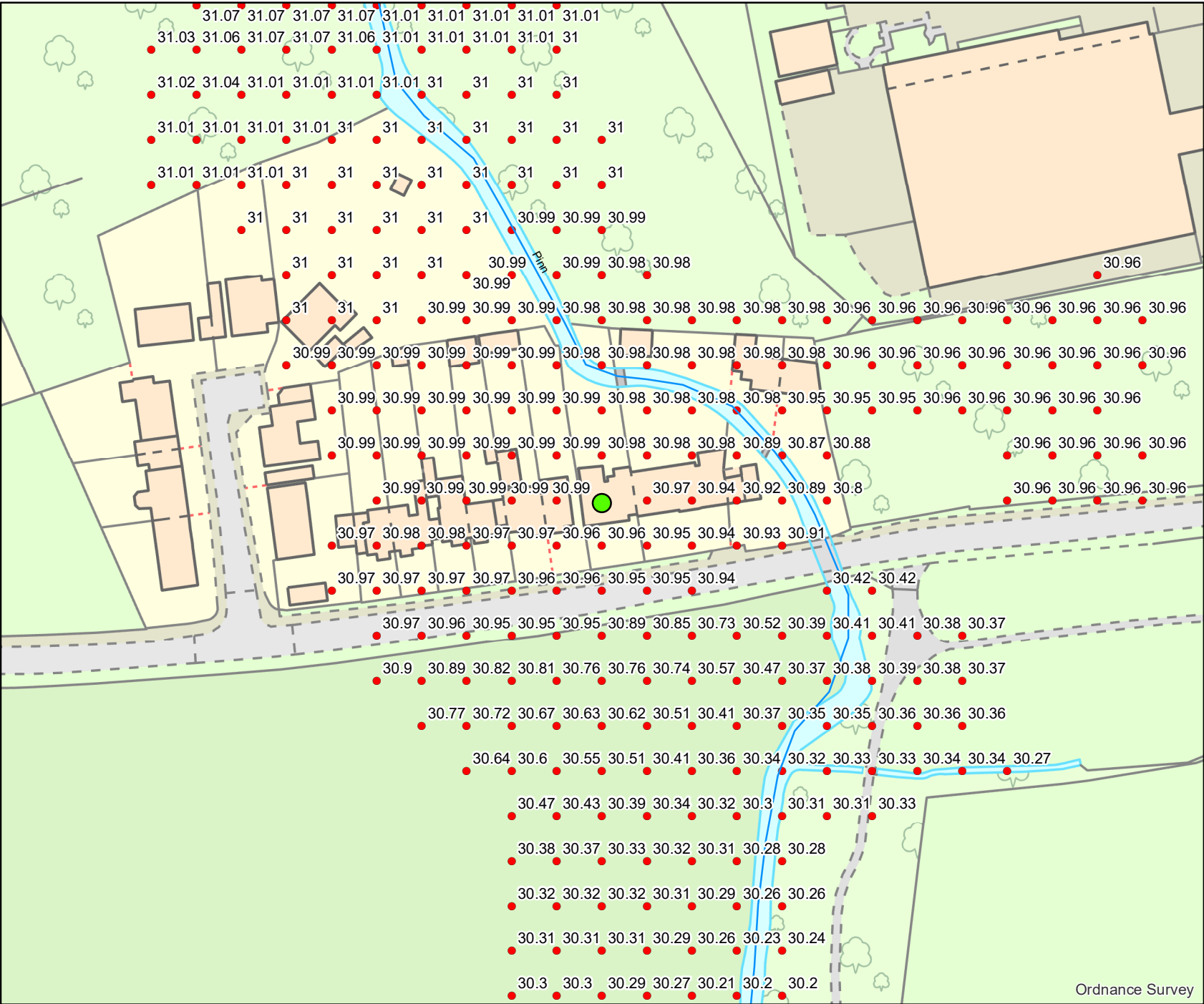
2D Node Results: Heights

- 1 in 20 year (5%) Defended

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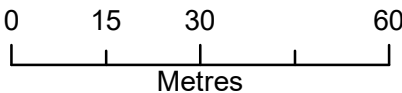


Ordnance Survey

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Legend

- Main Rivers
- Site location

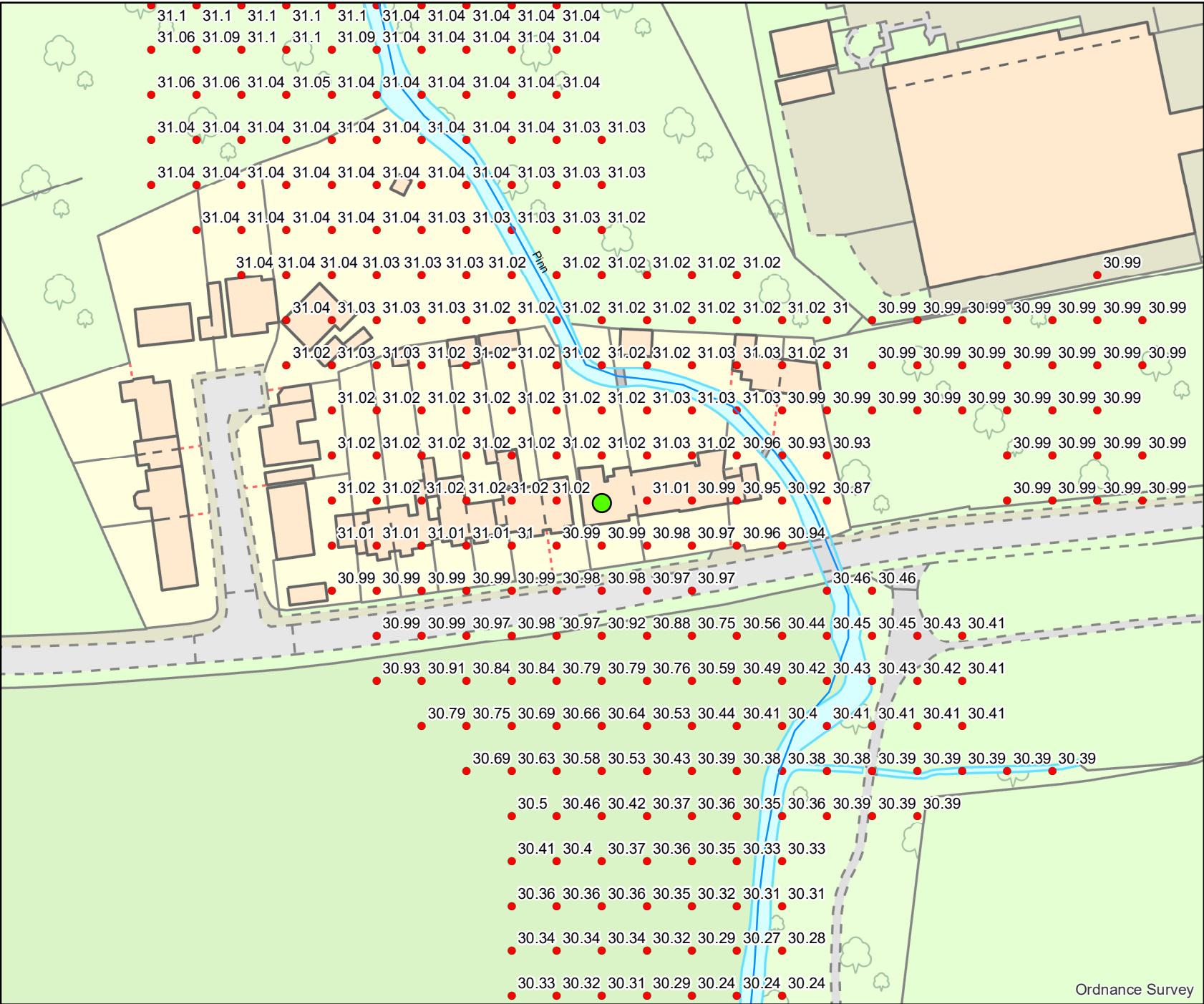
2D Node Results: Heights

- 1 in 30 year (3.33%) Defended

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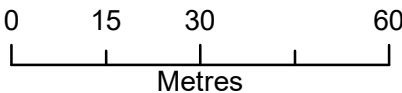
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Legend

- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 50 year (2%) Defended

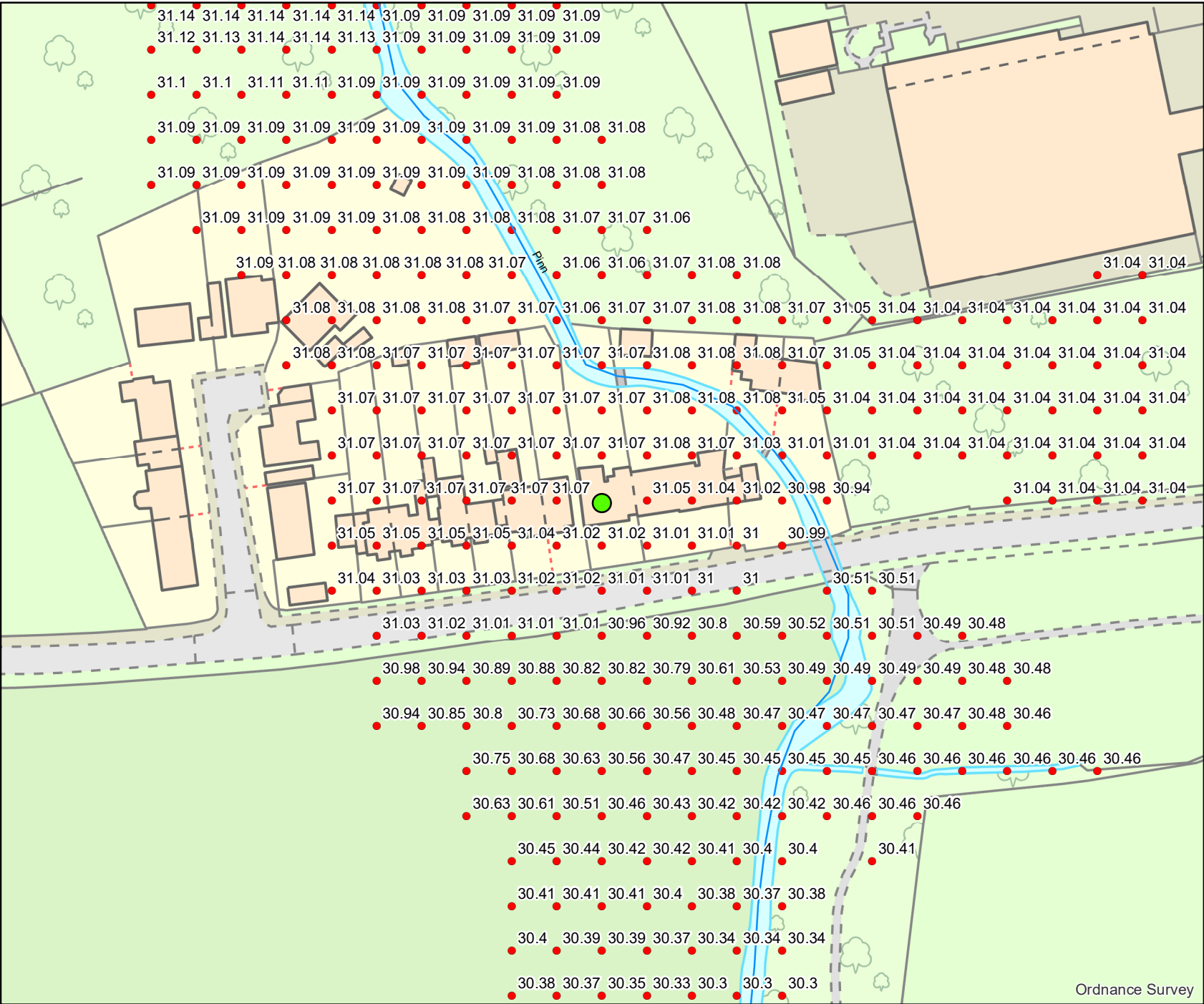
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<https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>

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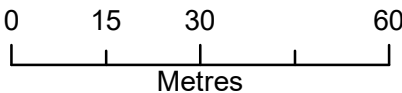


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Detailed FRA centred on: 506169,182030 - 10/08/2022 - HNL 274674 BC



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Hertfordshire,
AL7 1HE



Legend

- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 75 year (1.33%) Defended

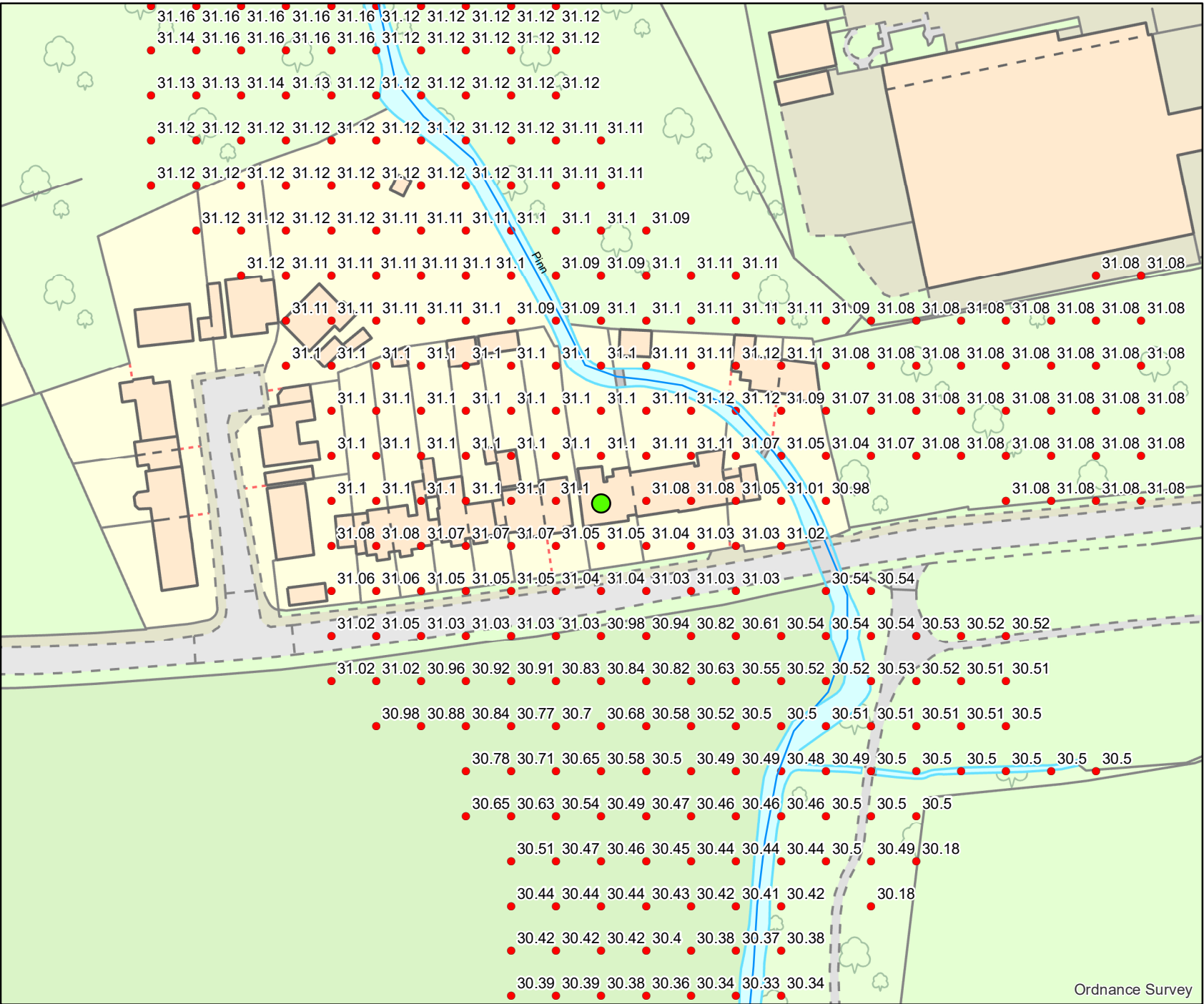
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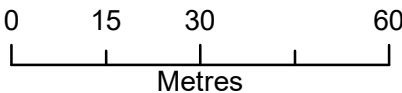
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Legend

- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 100 year (1%) Defended

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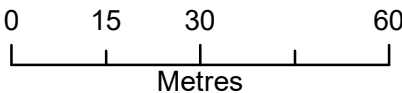
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Legend

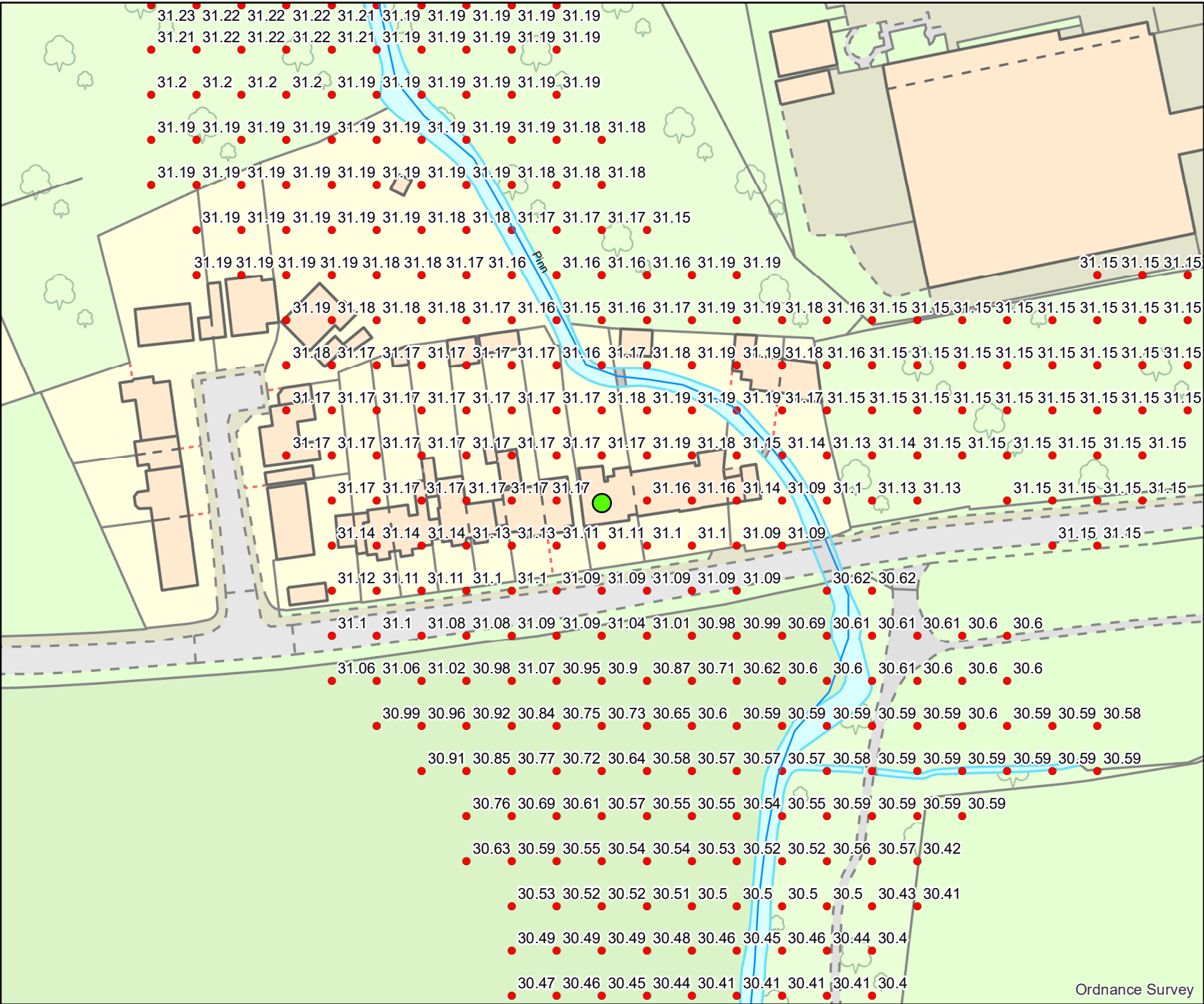
- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 100 year + 20% (*CC) Defended

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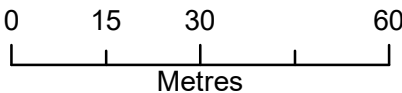


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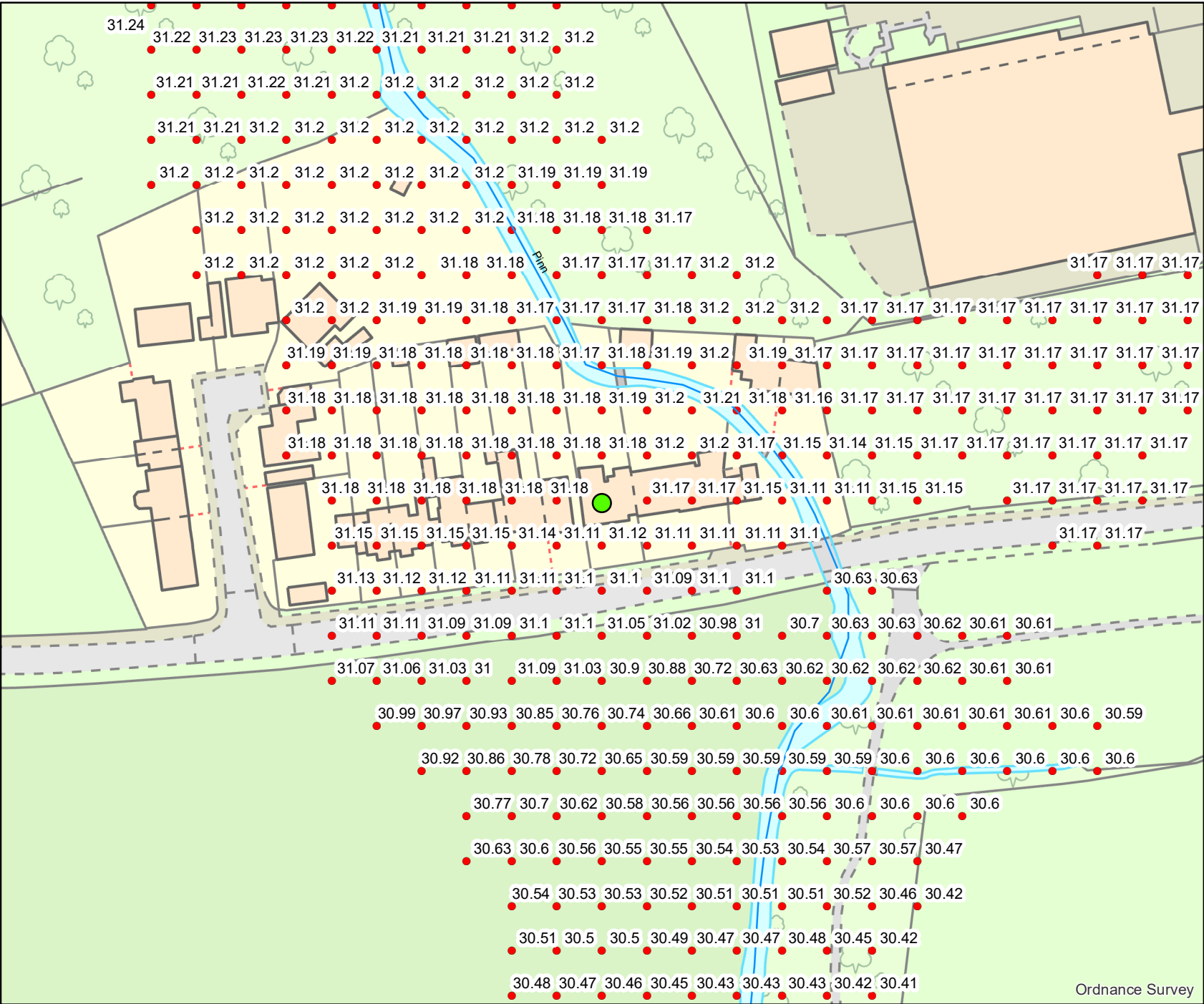
- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 100 year + 25% (*CC) Defended

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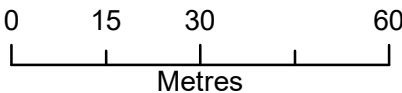


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Legend

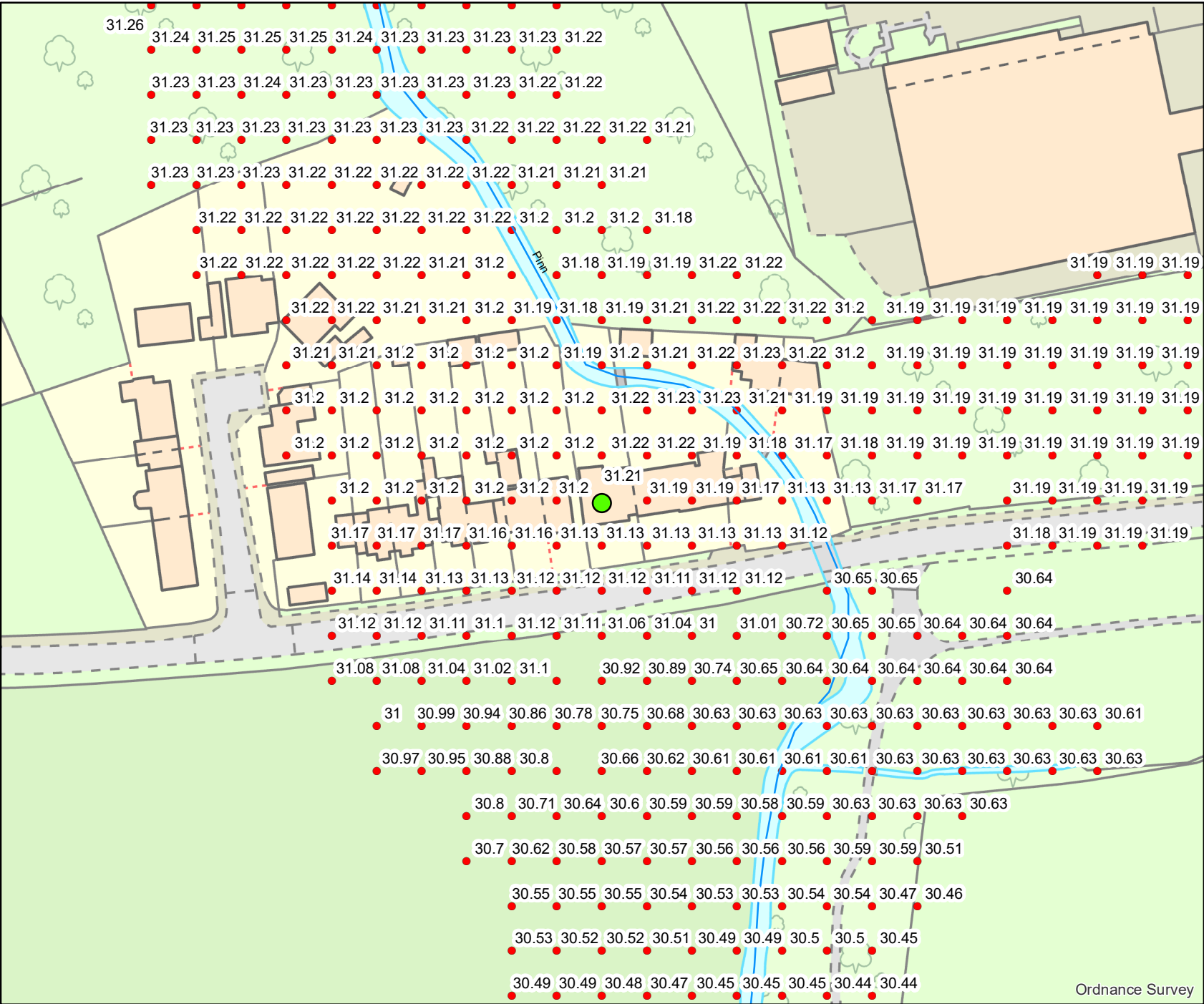
- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 100 year + 35% (*CC) Defended

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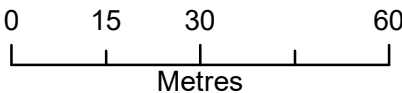
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Legend

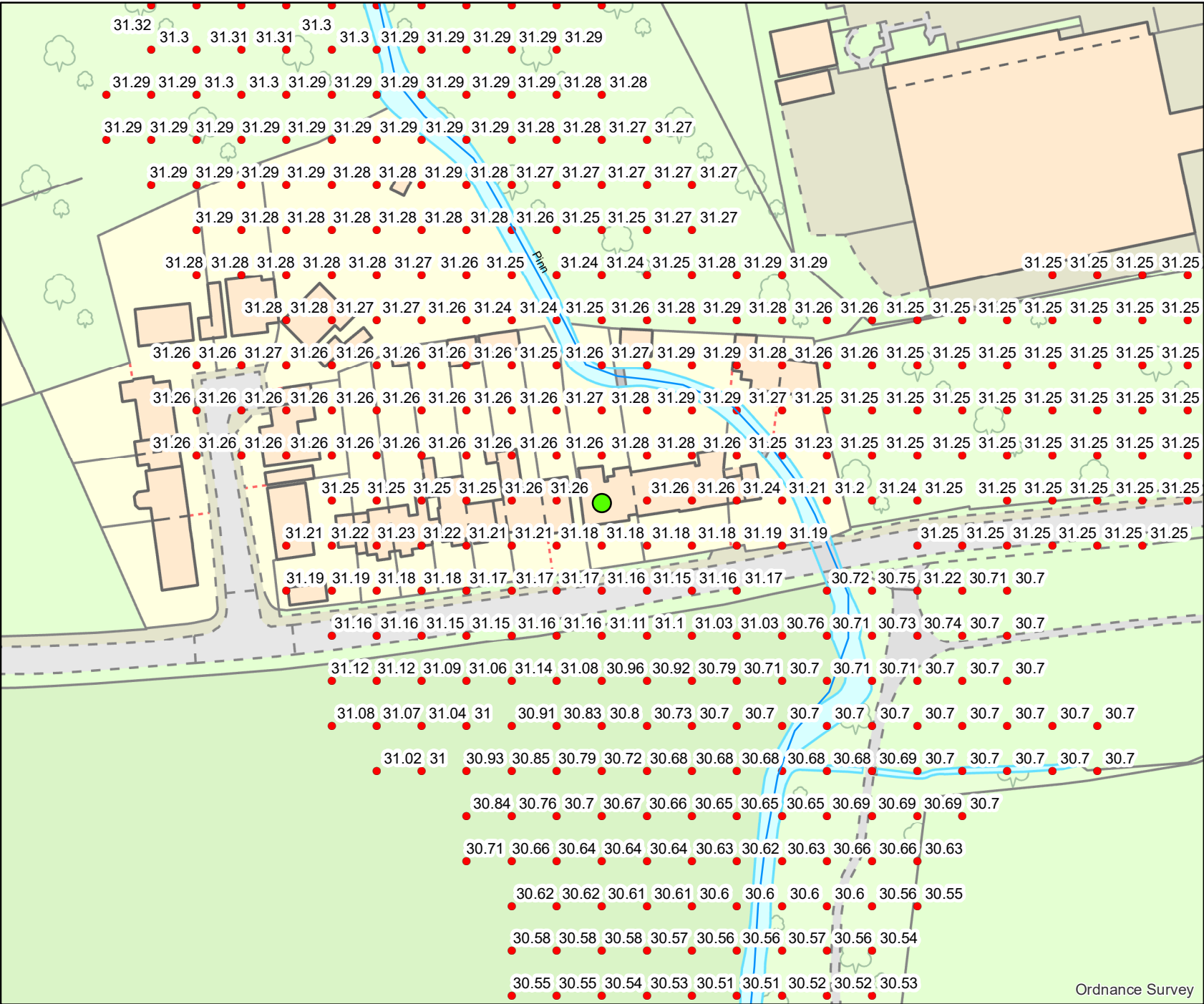
- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 100 year + 70% (*CC) Defended

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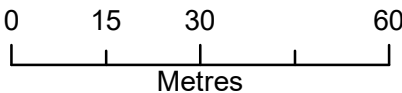


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Legend

- Main Rivers
- Site location

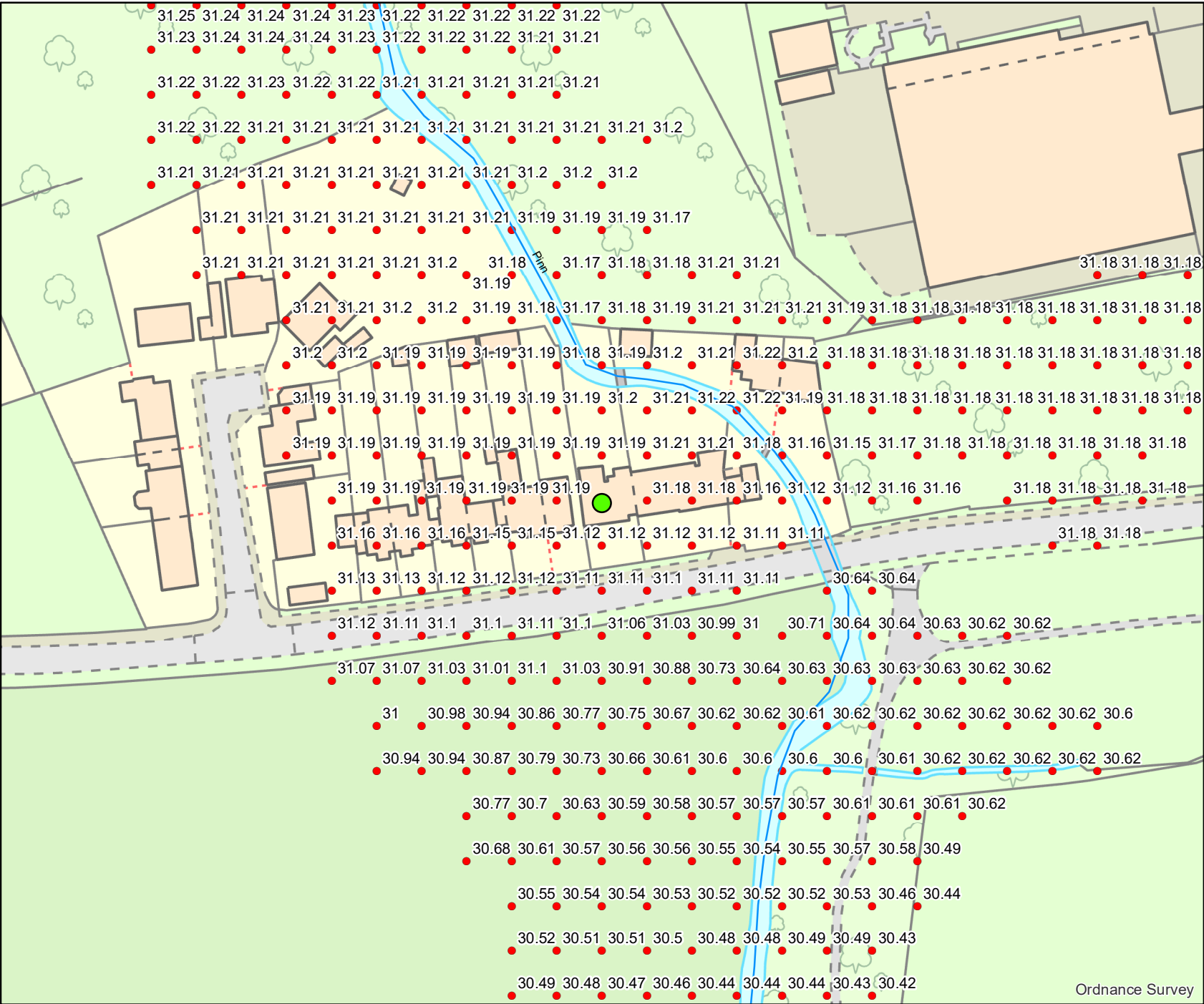
2D Node Results: Heights

- 1 in 250 year (0.4%) Defended

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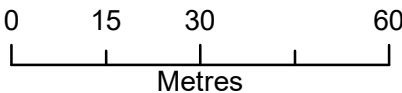
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Legend

- Main Rivers
- Site location

2D Node Results: Heights

- 1 in 1000 year (0.1%) Defended

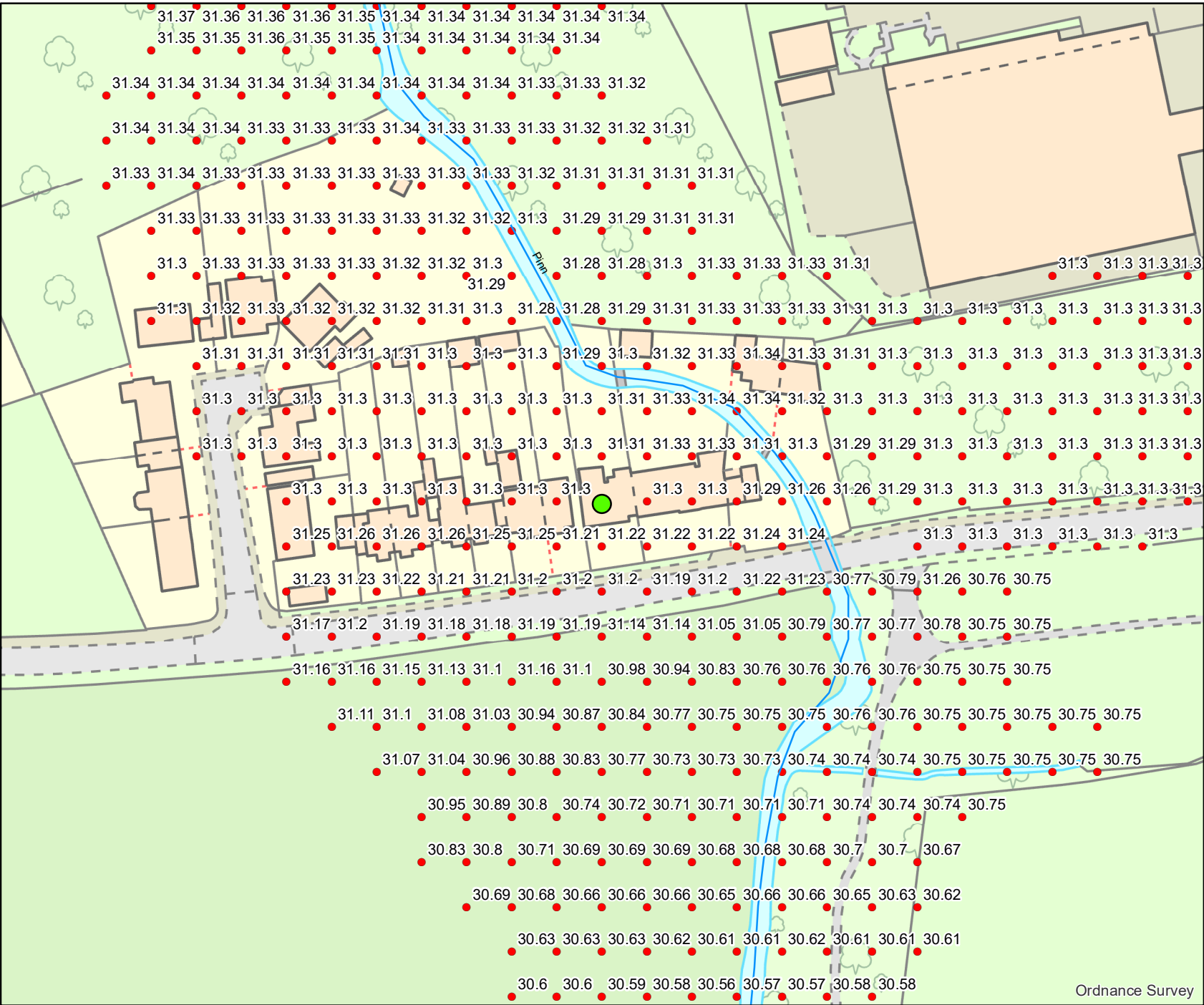
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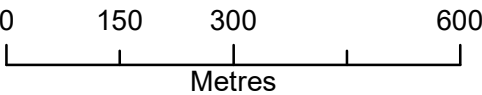


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Historic Flood Map centred on: 506169,182030 - 10/08/2022 - HNL 274674 BC



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Legend

- Main Rivers
- Site location

Flood Event Outlines

Legend

- 1977
- 1987
- 1988

The historic flood event outlines are based on a combination of anecdotal evidence, Environment Agency staff observations and survey. Our historic flood event outlines do not provide a definitive record of flooding. It is possible that there will be an absence of data in places where we have not been able to record the extent of flooding. It is also possible for errors occur in the digitisation of historic records of flooding.

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