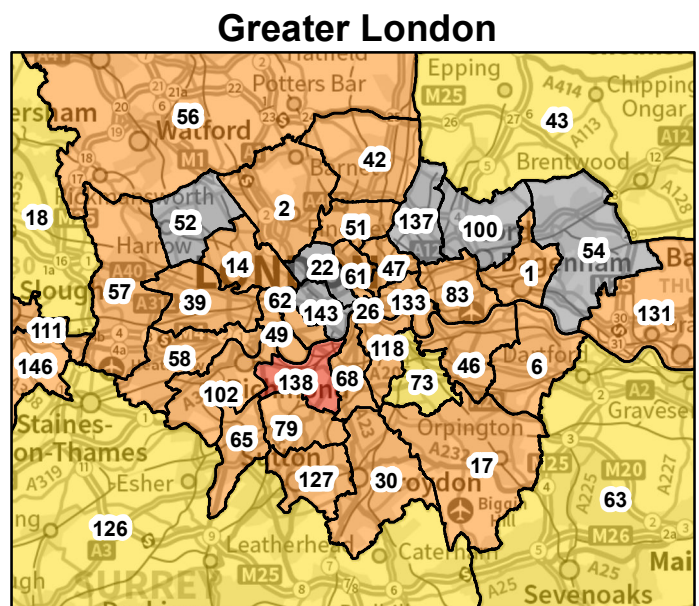
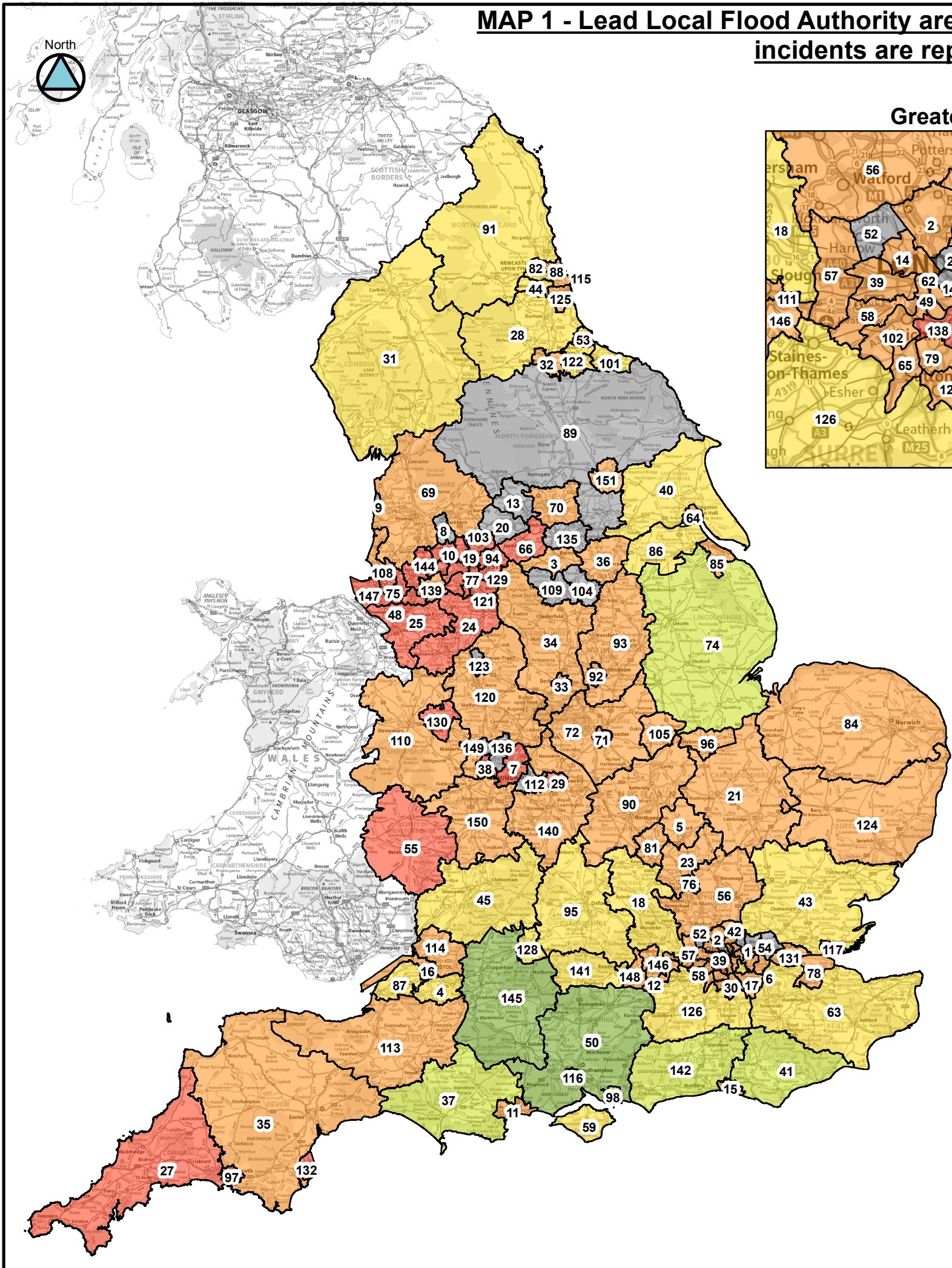


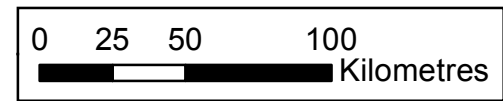
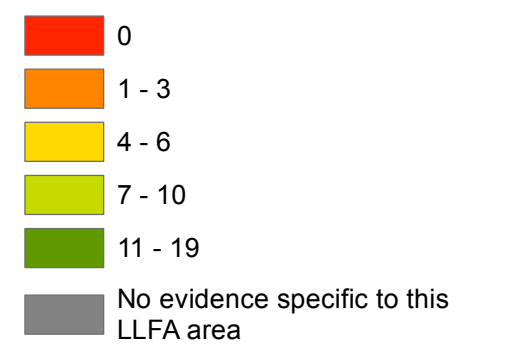
MAP 1 - Lead Local Flood Authority areas where groundwater flood incidents are reported



Lead Local Flood Authority

- | | | |
|--|----------------------------------|------------------------------|
| 1 - Barking and Dagenham | 51 - Haringey | 101 - Redcar and Cleveland |
| 2 - Barnet | 52 - Harrow | 102 - Richmond upon Thames |
| 3 - Barnsley | 53 - Hartlepool | 103 - Rochdale |
| 4 - Bath and North East Somerset | 54 - Havering | 104 - Rotherham |
| 5 - Bedford | 55 - Herefordshire, County of | 105 - Rutland |
| 6 - Bexley | 56 - Hertfordshire County | 106 - Salford |
| 7 - Birmingham | 57 - Hillingdon | 107 - Sandwell |
| 8 - Blackburn with Darwen | 58 - Hounslow | 108 - Sefton |
| 9 - Blackpool | 59 - Isle of Wight | 109 - Sheffield |
| 10 - Bolton | 60 - Isles of Scilly | 110 - Shropshire |
| 11 - Bournemouth, Christchurch and Poole | 61 - Islington | 111 - Slough |
| 12 - Bracknell Forest | 62 - Kensington and Chelsea | 112 - Solihull |
| 13 - Bradford | 63 - Kent County | 113 - Somerset County |
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| 15 - Brighton and Hove | 65 - Kingston upon Thames | 115 - South Tyneside |
| 16 - Bristol, City of | 66 - Kirklees | 116 - Southampton |
| 17 - Bromley | 67 - Knowsley | 117 - Southend-on-Sea |
| 18 - Buckinghamshire County | 68 - Lambeth | 118 - Southwark |
| 19 - Bury | 69 - Lancashire County | 119 - St. Helens |
| 20 - Calderdale | 70 - Leeds | 120 - Staffordshire County |
| 21 - Cambridgeshire County | 71 - Leicester | 121 - Stockport |
| 22 - Camden | 72 - Leicestershire County | 122 - Stockton-on-Tees |
| 23 - Central Bedfordshire | 73 - Lewisham | 123 - Stoke-on-Trent |
| 24 - Cheshire East | 74 - Lincolnshire County | 124 - Suffolk County |
| 25 - Cheshire West and Chester | 75 - Liverpool | 125 - Sunderland |
| 26 - City of London | 76 - Luton | 126 - Surrey County |
| 27 - Cornwall | 77 - Manchester | 127 - Sutton |
| 28 - County Durham | 78 - Medway | 128 - Swindon |
| 29 - Coventry | 79 - Merton | 129 - Tameside |
| 30 - Croydon | 80 - Middlesbrough | 130 - Telford and Wrekin |
| 31 - Cumbria County | 81 - Milton Keynes | 131 - Thurrock |
| 32 - Darlington | 82 - Newcastle upon Tyne | 132 - Torbay |
| 33 - Derby | 83 - Newham | 133 - Tower Hamlets |
| 34 - Derbyshire County | 84 - Norfolk County | 134 - Trafford |
| 35 - Devon County | 85 - North East Lincolnshire | 135 - Wakefield |
| 36 - Doncaster | 86 - North Lincolnshire | 136 - Walsall |
| 37 - Dorset | 87 - North Somerset | 137 - Waltham Forest |
| 38 - Dudley | 88 - North Tyneside | 138 - Wandsworth |
| 39 - Ealing | 89 - North Yorkshire County | 139 - Warrington |
| 40 - East Riding of Yorkshire | 90 - Northamptonshire County | 140 - Warwickshire County |
| 41 - East Sussex County | 91 - Northumberland | 141 - West Berkshire |
| 42 - Enfield | 92 - Nottingham | 142 - West Sussex County |
| 43 - Essex County | 93 - Nottinghamshire County | 143 - Westminster |
| 44 - Gateshead | 94 - Oldham | 144 - Wigan |
| 45 - Gloucestershire County | 95 - Oxfordshire County | 145 - Wiltshire |
| 46 - Greenwich | 96 - Peterborough | 146 - Windsor and Maidenhead |
| 47 - Hackney | 97 - Plymouth | 147 - Wirral |
| 48 - Halton | 98 - Portsmouth | 148 - Wokingham |
| 49 - Hammersmith and Fulham | 99 - Reading | 149 - Wolverhampton |
| 50 - Hampshire County | 100 - Redbridge | 150 - Worcestershire County |
| | | 151 - York |

Number of respondents that report groundwater flood incidents



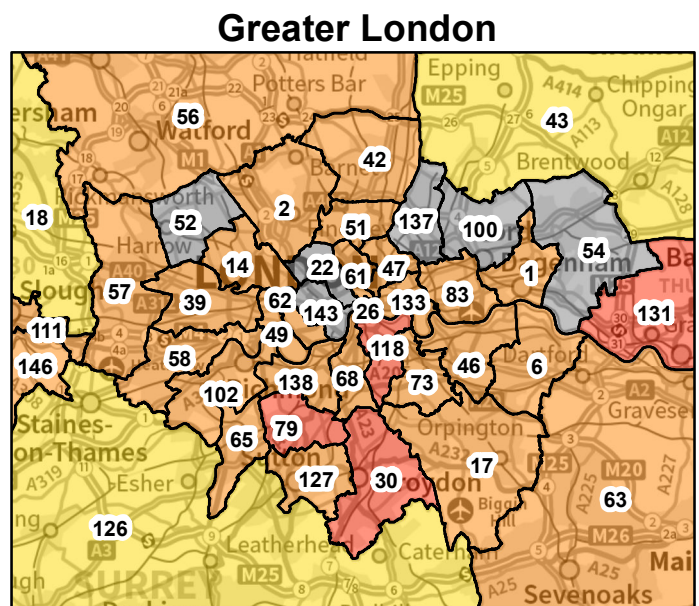
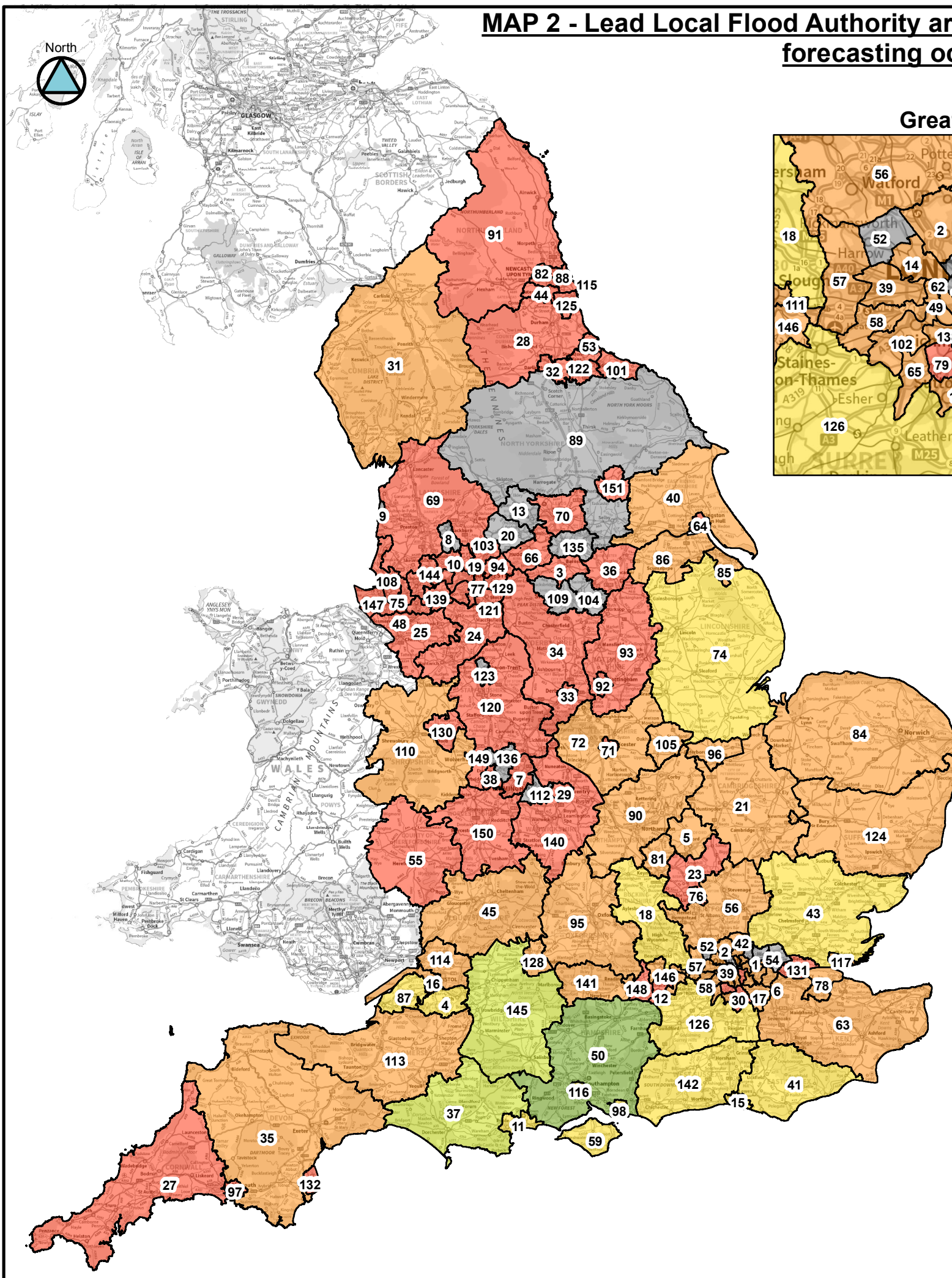
Based on a survey of 194 responses, representing 131 LLFA areas, the map shows evidence where groundwater flood incidents are reported. There are a further 20 LLFA areas with no survey respondents associated with them (shown in grey).

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MAP 2 - Lead Local Flood Authority areas where groundwater flood forecasting occurs

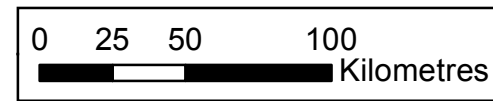


Lead Local Flood Authority

- | | | |
|--|----------------------------------|------------------------------|
| 1 - Barking and Dagenham | 51 - Haringey | 101 - Redcar and Cleveland |
| 2 - Barnet | 52 - Harrow | 102 - Richmond upon Thames |
| 3 - Barnsley | 53 - Hartlepool | 103 - Rochdale |
| 4 - Bath and North East Somerset | 54 - Havering | 104 - Rotherham |
| 5 - Bedford | 55 - Herefordshire, County of | 105 - Rutland |
| 6 - Bexley | 56 - Hertfordshire County | 106 - Salford |
| 7 - Birmingham | 57 - Hillingdon | 107 - Sandwell |
| 8 - Blackburn with Darwen | 58 - Hounslow | 108 - Sefton |
| 9 - Blackpool | 59 - Isle of Wight | 109 - Sheffield |
| 10 - Bolton | 60 - Isles of Scilly | 110 - Shropshire |
| 11 - Bournemouth, Christchurch and Poole | 61 - Islington | 111 - Slough |
| 12 - Bracknell Forest | 62 - Kensington and Chelsea | 112 - Solihull |
| 13 - Bradford | 63 - Kent County | 113 - Somerset County |
| 14 - Brent | 64 - Kingston upon Hull, City of | 114 - South Gloucestershire |
| 15 - Brighton and Hove | 65 - Kingston upon Thames | 115 - South Tyneside |
| 16 - Bristol, City of | 66 - Kirklees | 116 - Southampton |
| 17 - Bromley | 67 - Knowsley | 117 - Southend-on-Sea |
| 18 - Buckinghamshire County | 68 - Lambeth | 118 - Southwark |
| 19 - Bury | 69 - Lancashire County | 119 - St. Helens |
| 20 - Calderdale | 70 - Leeds | 120 - Staffordshire County |
| 21 - Cambridgeshire County | 71 - Leicester | 121 - Stockport |
| 22 - Camden | 72 - Leicestershire County | 122 - Stockton-on-Tees |
| 23 - Central Bedfordshire | 73 - Lewisham | 123 - Stoke-on-Trent |
| 24 - Cheshire East | 74 - Lincolnshire County | 124 - Suffolk County |
| 25 - Cheshire West and Chester | 75 - Liverpool | 125 - Sunderland |
| 26 - City of London | 76 - Luton | 126 - Surrey County |
| 27 - Cornwall | 77 - Manchester | 127 - Sutton |
| 28 - County Durham | 78 - Medway | 128 - Swindon |
| 29 - Coventry | 79 - Merton | 129 - Tameside |
| 30 - Croydon | 80 - Middlesbrough | 130 - Telford and Wrekin |
| 31 - Cumbria County | 81 - Milton Keynes | 131 - Thurrock |
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| 36 - Doncaster | 86 - North Lincolnshire | 136 - Walsall |
| 37 - Dorset | 87 - North Somerset | 137 - Waltham Forest |
| 38 - Dudley | 88 - North Tyneside | 138 - Wandsworth |
| 39 - Ealing | 89 - North Yorkshire County | 139 - Warrington |
| 40 - East Riding of Yorkshire | 90 - Northamptonshire County | 140 - Warwickshire County |
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| 43 - Essex County | 93 - Nottinghamshire County | 143 - Westminster |
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| 45 - Gloucestershire County | 95 - Oxfordshire County | 145 - Wiltshire |
| 46 - Greenwich | 96 - Peterborough | 146 - Windsor and Maidenhead |
| 47 - Hackney | 97 - Plymouth | 147 - Wirral |
| 48 - Halton | 98 - Portsmouth | 148 - Wokingham |
| 49 - Hammersmith and Fulham | 99 - Reading | 149 - Wolverhampton |
| 50 - Hampshire County | 100 - Redbridge | 150 - Worcestershire County |
| | | 151 - York |

Number of evidence regarding groundwater flood forecasting

- 0
- 1 - 2
- 3 - 5
- 6 - 8
- 9 - 11
- No evidence specific to this LLFA area



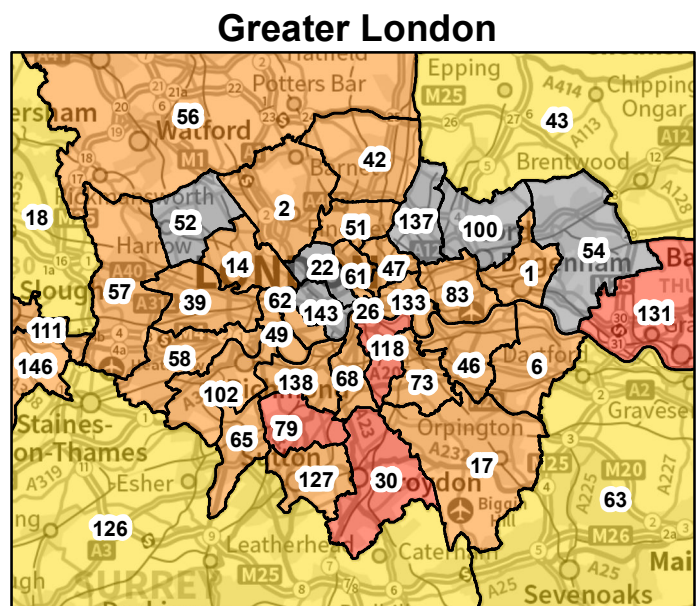
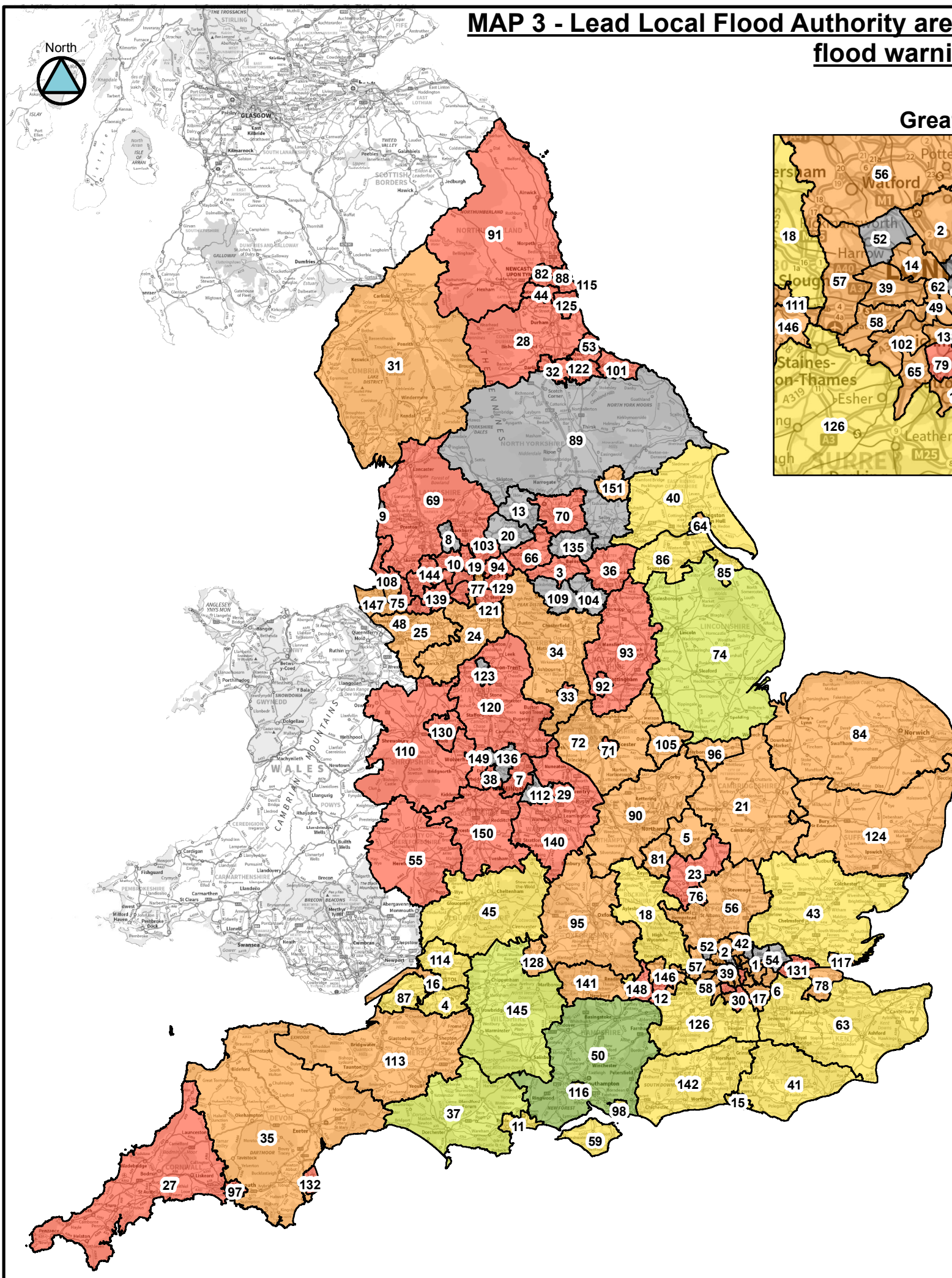
Based on a survey with 194 responses and 25 literature/interview sources, representing 131 LLFA areas, the map shows evidence where groundwater flood forecasting is carried out. There are a further 20 LLFA areas with no evidence associated with them (shown in grey).

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MAP 3 - Lead Local Flood Authority areas where there is groundwater flood warning



Lead Local Flood Authority

- | | | |
|--|----------------------------------|------------------------------|
| 1 - Barking and Dagenham | 51 - Haringey | 101 - Redcar and Cleveland |
| 2 - Barnet | 52 - Harrow | 102 - Richmond upon Thames |
| 3 - Barnsley | 53 - Hartlepool | 103 - Rochdale |
| 4 - Bath and North East Somerset | 54 - Havering | 104 - Rotherham |
| 5 - Bedford | 55 - Herefordshire, County of | 105 - Rutland |
| 6 - Bexley | 56 - Hertfordshire County | 106 - Salford |
| 7 - Birmingham | 57 - Hillingdon | 107 - Sandwell |
| 8 - Blackburn with Darwen | 58 - Hounslow | 108 - Sefton |
| 9 - Blackpool | 59 - Isle of Wight | 109 - Sheffield |
| 10 - Bolton | 60 - Isles of Scilly | 110 - Shropshire |
| 11 - Bournemouth, Christchurch and Poole | 61 - Islington | 111 - Slough |
| 12 - Bracknell Forest | 62 - Kensington and Chelsea | 112 - Solihull |
| 13 - Bradford | 63 - Kent County | 113 - Somerset County |
| 14 - Brent | 64 - Kingston upon Hull, City of | 114 - South Gloucestershire |
| 15 - Brighton and Hove | 65 - Kingston upon Thames | 115 - South Tyneside |
| 16 - Bristol, City of | 66 - Kirklees | 116 - Southampton |
| 17 - Bromley | 67 - Knowsley | 117 - Southend-on-Sea |
| 18 - Buckinghamshire County | 68 - Lambeth | 118 - Southwark |
| 19 - Bury | 69 - Lancashire County | 119 - St. Helens |
| 20 - Calderdale | 70 - Leeds | 120 - Staffordshire County |
| 21 - Cambridgeshire County | 71 - Leicester | 121 - Stockport |
| 22 - Camden | 72 - Leicestershire County | 122 - Stockton-on-Tees |
| 23 - Central Bedfordshire | 73 - Lewisham | 123 - Stoke-on-Trent |
| 24 - Cheshire East | 74 - Lincolnshire County | 124 - Suffolk County |
| 25 - Cheshire West and Chester | 75 - Liverpool | 125 - Sunderland |
| 26 - City of London | 76 - Luton | 126 - Surrey County |
| 27 - Cornwall | 77 - Manchester | 127 - Sutton |
| 28 - County Durham | 78 - Medway | 128 - Swindon |
| 29 - Coventry | 79 - Merton | 129 - Tameside |
| 30 - Croydon | 80 - Middlesbrough | 130 - Telford and Wrekin |
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| 35 - Devon County | 85 - North East Lincolnshire | 135 - Wakefield |
| 36 - Doncaster | 86 - North Lincolnshire | 136 - Walsall |
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| 45 - Gloucestershire County | 95 - Oxfordshire County | 145 - Wiltshire |
| 46 - Greenwich | 96 - Peterborough | 146 - Windsor and Maidenhead |
| 47 - Hackney | 97 - Plymouth | 147 - Wirral |
| 48 - Halton | 98 - Portsmouth | 148 - Wokingham |
| 49 - Hammersmith and Fulham | 99 - Reading | 149 - Wolverhampton |
| 50 - Hampshire County | 100 - Redbridge | 150 - Worcestershire County |
| | | 151 - York |

Number of evidence regarding groundwater flood warning

- 0
- 1 - 2
- 3 - 5
- 6 - 10
- 11 - 14
- No evidence specific to this LLFA area



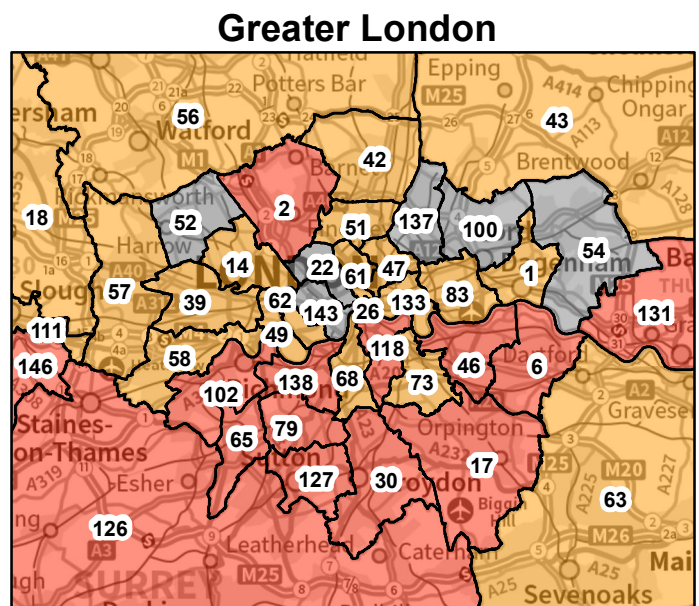
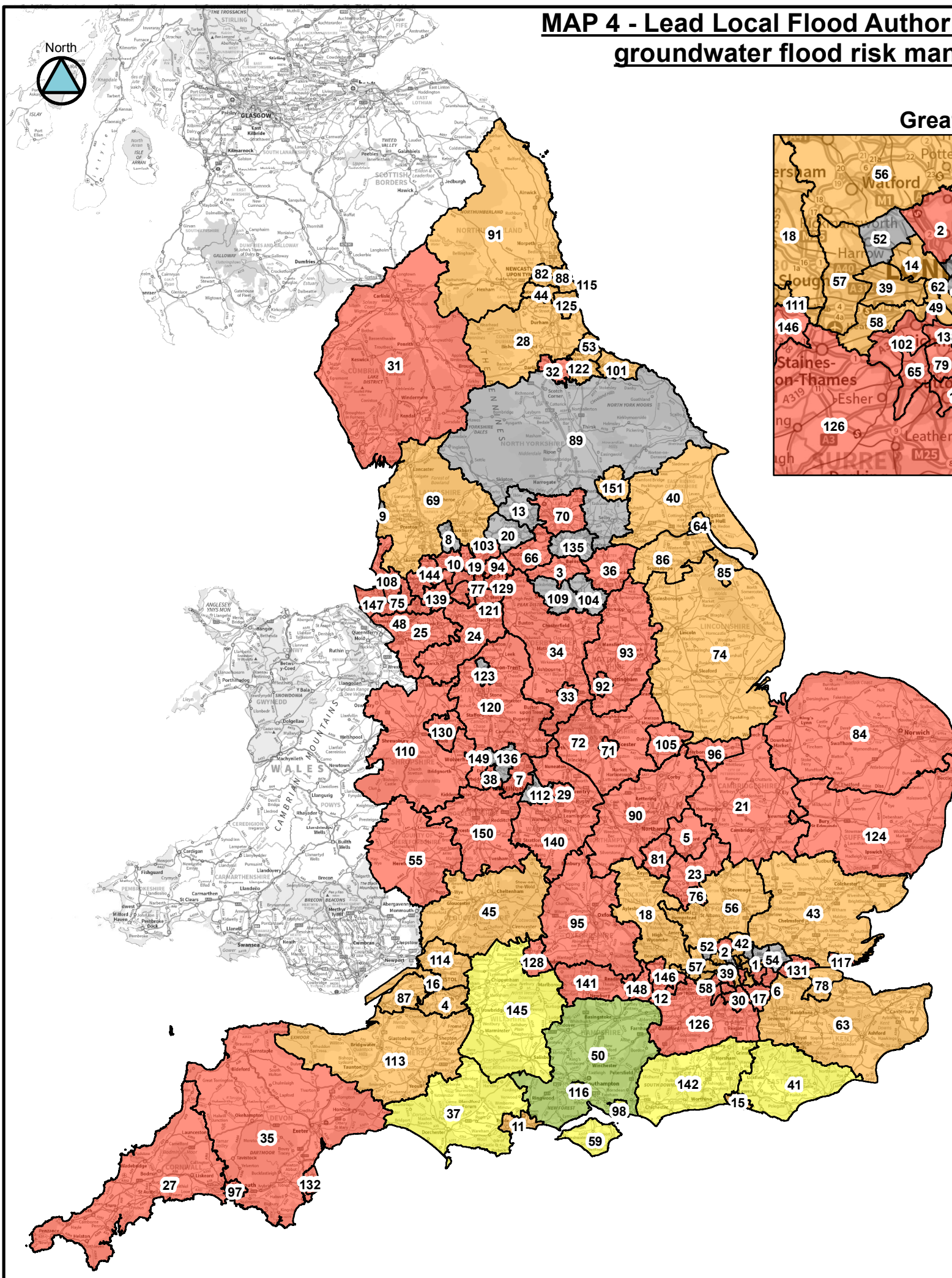
Based on a survey with 194 responses and 25 literature/interview sources, representing 131 LLFA areas, the map shows evidence where groundwater flood warnings are used. There are a further 20 LLFA areas with no evidence associated with them (shown in grey).

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MAP 4 - Lead Local Flood Authority areas where there are groundwater flood risk management schemes



Lead Local Flood Authority

- | | | |
|--|----------------------------------|------------------------------|
| 1 - Barking and Dagenham | 51 - Haringey | 101 - Redcar and Cleveland |
| 2 - Barnet | 52 - Harrow | 102 - Richmond upon Thames |
| 3 - Barnsley | 53 - Hartlepool | 103 - Rochdale |
| 4 - Bath and North East Somerset | 54 - Havering | 104 - Rotherham |
| 5 - Bedford | 55 - Herefordshire, County of | 105 - Rutland |
| 6 - Bexley | 56 - Hertfordshire County | 106 - Salford |
| 7 - Birmingham | 57 - Hillingdon | 107 - Sandwell |
| 8 - Blackburn with Darwen | 58 - Hounslow | 108 - Sefton |
| 9 - Blackpool | 59 - Isle of Wight | 109 - Sheffield |
| 10 - Bolton | 60 - Isles of Scilly | 110 - Shropshire |
| 11 - Bournemouth, Christchurch and Poole | 61 - Islington | 111 - Slough |
| 12 - Bracknell Forest | 62 - Kensington and Chelsea | 112 - Solihull |
| 13 - Bradford | 63 - Kent County | 113 - Somerset County |
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| 15 - Brighton and Hove | 65 - Kingston upon Thames | 115 - South Tyneside |
| 16 - Bristol, City of | 66 - Kirklees | 116 - Southampton |
| 17 - Bromley | 67 - Knowsley | 117 - Southend-on-Sea |
| 18 - Buckinghamshire County | 68 - Lambeth | 118 - Southwark |
| 19 - Bury | 69 - Lancashire County | 119 - St. Helens |
| 20 - Calderdale | 70 - Leeds | 120 - Staffordshire County |
| 21 - Cambridgeshire County | 71 - Leicester | 121 - Stockport |
| 22 - Camden | 72 - Leicestershire County | 122 - Stockton-on-Tees |
| 23 - Central Bedfordshire | 73 - Lewisham | 123 - Stoke-on-Trent |
| 24 - Cheshire East | 74 - Lincolnshire County | 124 - Suffolk County |
| 25 - Cheshire West and Chester | 75 - Liverpool | 125 - Sunderland |
| 26 - City of London | 76 - Luton | 126 - Surrey County |
| 27 - Cornwall | 77 - Manchester | 127 - Sutton |
| 28 - County Durham | 78 - Medway | 128 - Swindon |
| 29 - Coventry | 79 - Merton | 129 - Tameside |
| 30 - Croydon | 80 - Middlesbrough | 130 - Telford and Wrekin |
| 31 - Cumbria County | 81 - Milton Keynes | 131 - Thurrock |
| 32 - Darlington | 82 - Newcastle upon Tyne | 132 - Torbay |
| 33 - Derby | 83 - Newham | 133 - Tower Hamlets |
| 34 - Derbyshire County | 84 - Norfolk County | 134 - Trafford |
| 35 - Devon County | 85 - North East Lincolnshire | 135 - Wakefield |
| 36 - Doncaster | 86 - North Lincolnshire | 136 - Walsall |
| 37 - Dorset | 87 - North Somerset | 137 - Waltham Forest |
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| 46 - Greenwich | 96 - Peterborough | 146 - Windsor and Maidenhead |
| 47 - Hackney | 97 - Plymouth | 147 - Wirral |
| 48 - Halton | 98 - Portsmouth | 148 - Wokingham |
| 49 - Hammersmith and Fulham | 99 - Reading | 149 - Wolverhampton |
| 50 - Hampshire County | 100 - Redbridge | 150 - Worcestershire County |
| | | 151 - York |

Number of evidence regarding groundwater flood risk management schemes

- 0
- 1 - 2
- 3 - 4
- 5 - 10
- No evidence specific to this LLFA area



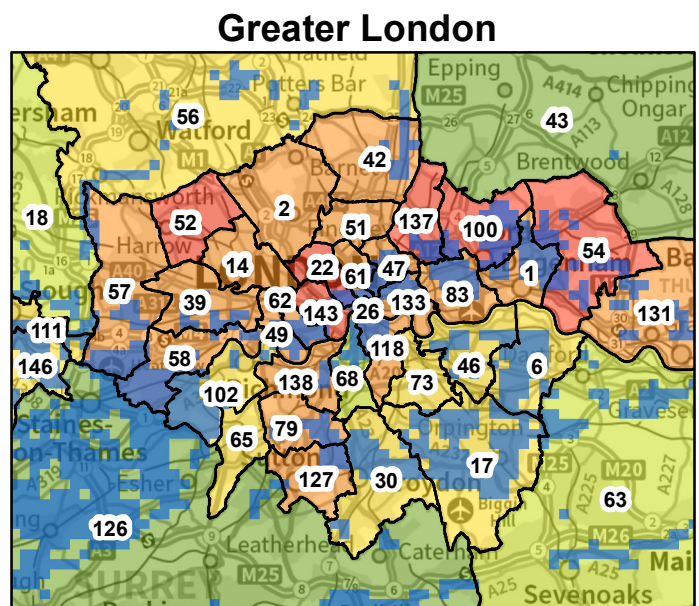
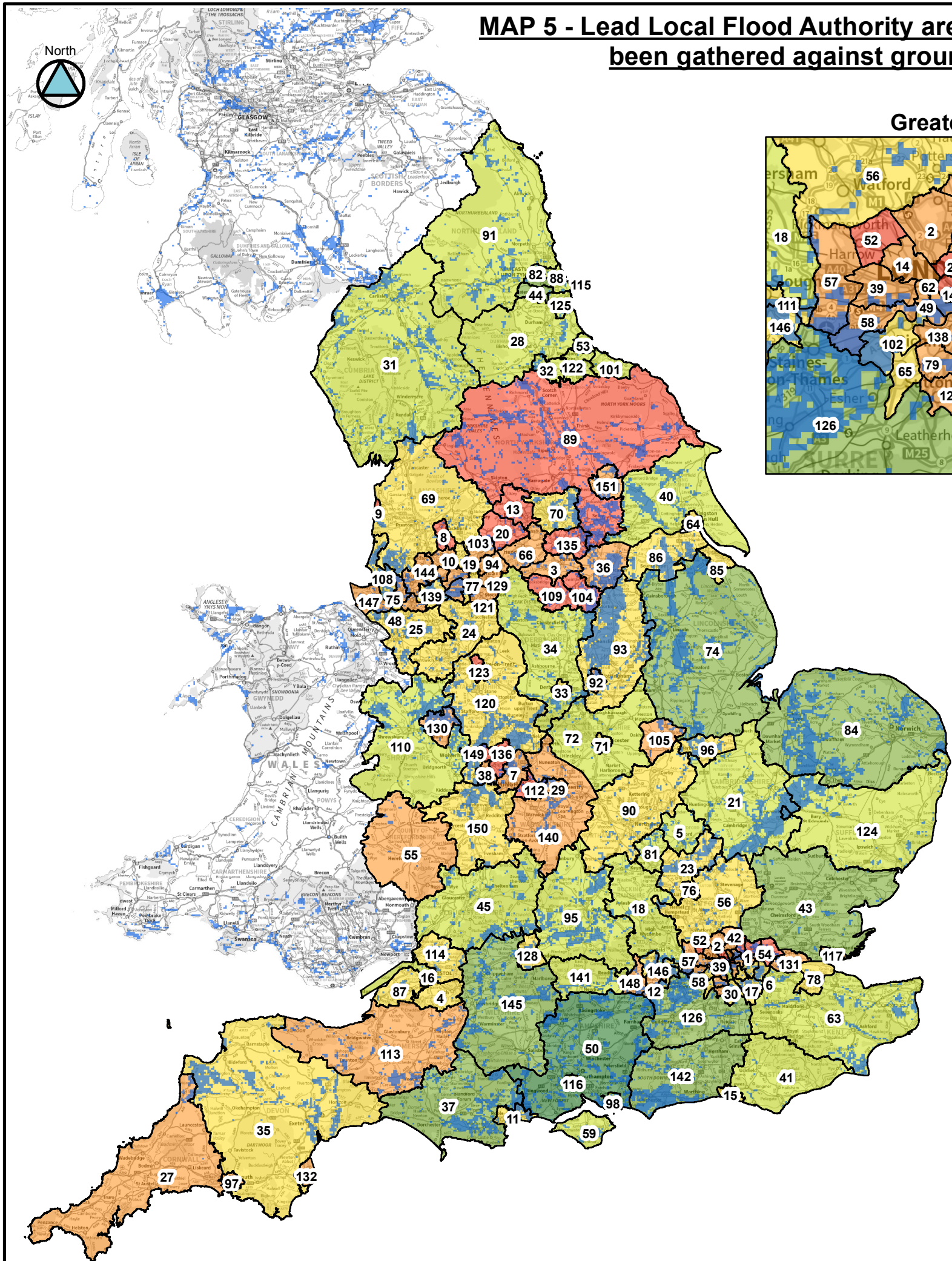
Based on a survey with 194 responses and 25 literature/interview sources, representing 131 LLFA areas, the map shows evidence where there are groundwater flood risk management schemes. There are a further 20 LLFA areas with no evidence associated with them (shown in grey).

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MAP 5 - Lead Local Flood Authority areas where evidence data has been gathered against groundwater flood risk



Lead Local Flood Authority

1 - Barking and Dagenham	51 - Haringey	101 - Redcar and Cleveland
2 - Barnet	52 - Harrow	102 - Richmond upon Thames
3 - Barnsley	53 - Hartlepool	103 - Rochdale
4 - Bath and North East Somerset	54 - Havering	104 - Rotherham
5 - Bedford	55 - Herefordshire, County of	105 - Rutland
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44 - Gateshead	94 - Oldham	144 - Wiltshire
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48 - Halton	98 - Portsmouth	148 - Wolverhampton
49 - Hammersmith and Fulham	99 - Reading	149 - Worcestershire County
50 - Hampshire County	100 - Redbridge	150 - York
		151 - York

The map shows the number of evidence gathered as part of the study (survey, literature and interview) specific to LLFA areas. There are 20 LLFA areas with no evidence associated with them (shown in red). The groundwater flood risk is shown for areas where groundwater may be within 0.5m below ground level, based on JBA's groundwater flood risk map at a 1km grid resolution.

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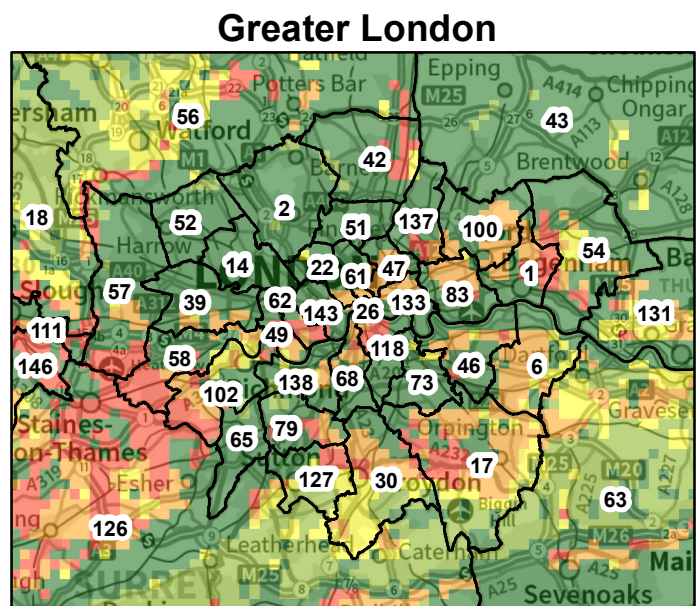
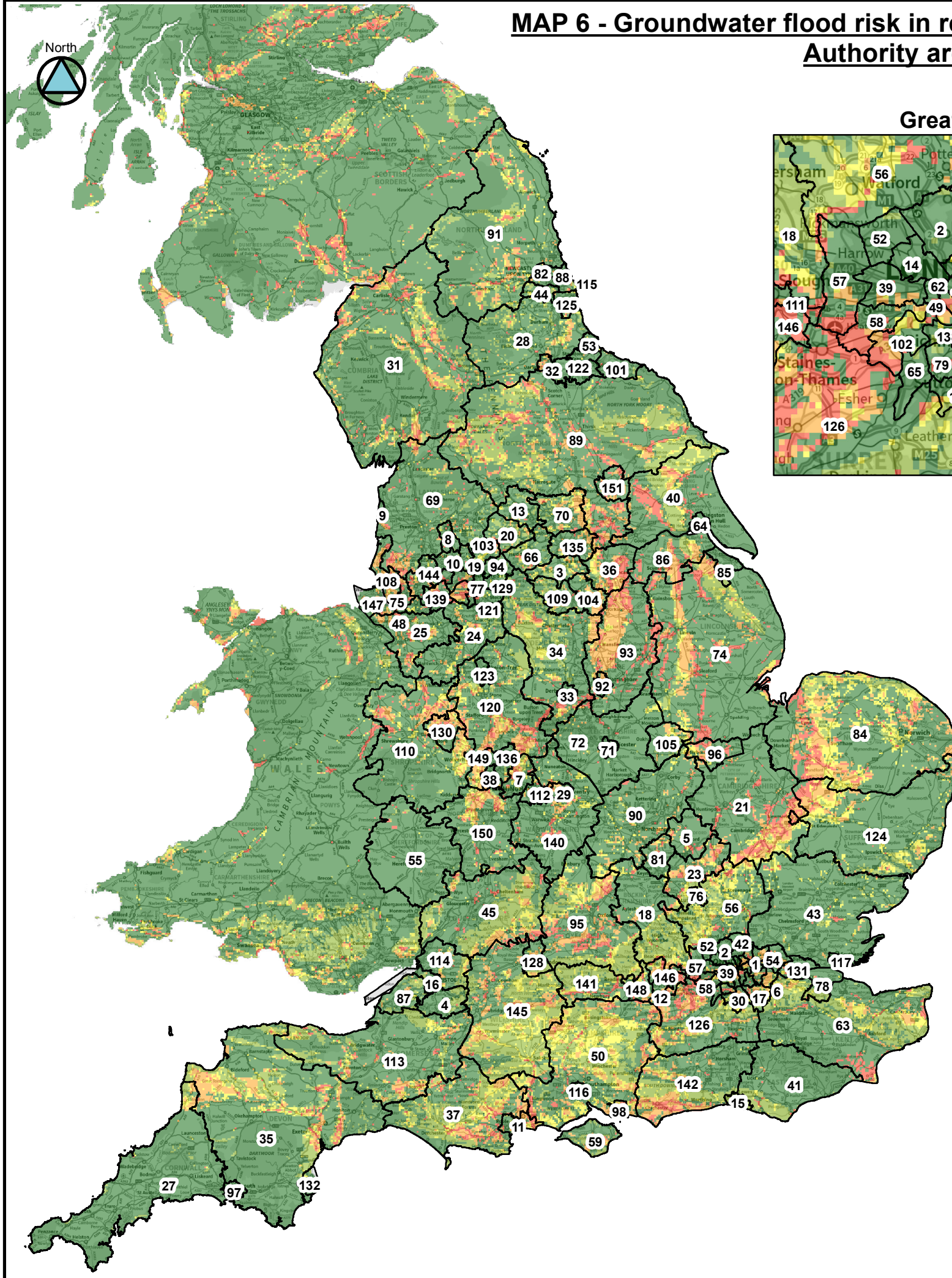
Groundwater flood risk (within 0.5mbgl, JBA 1km)

Number of evidence

- 0
- 1 - 2
- 3 - 5
- 6 - 9
- 10 - 16
- 17 - 26



MAP 6 - Groundwater flood risk in relation to Lead Local Flood Authority areas



Lead Local Flood Authority

- | | | |
|--|----------------------------------|------------------------------|
| 1 - Barking and Dagenham | 51 - Haringey | 101 - Redcar and Cleveland |
| 2 - Barnet | 52 - Harrow | 102 - Richmond upon Thames |
| 3 - Barnsley | 53 - Hartlepool | 103 - Rochdale |
| 4 - Bath and North East Somerset | 54 - Havering | 104 - Rotherham |
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| 6 - Bexley | 56 - Hertfordshire County | 106 - Salford |
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| 8 - Blackburn with Darwen | 58 - Hounslow | 108 - Sefton |
| 9 - Blackpool | 59 - Isle of Wight | 109 - Sheffield |
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| 11 - Bournemouth, Christchurch and Poole | 61 - Islington | 111 - Slough |
| 12 - Bracknell Forest | 62 - Kensington and Chelsea | 112 - Solihull |
| 13 - Bradford | 63 - Kent County | 113 - Somerset County |
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| 15 - Brighton and Hove | 65 - Kingston upon Thames | 115 - South Tyneside |
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| 35 - Devon County | 85 - North East Lincolnshire | 135 - Wakefield |
| 36 - Doncaster | 86 - North Lincolnshire | 136 - Walsall |
| 37 - Dorset | 87 - Dorset | 137 - Waltham Forest |
| 38 - Dudley | 88 - North Tyneside | 138 - Wandsworth |
| 39 - Ealing | 89 - North Yorkshire County | 139 - Warrington |
| 40 - East Riding of Yorkshire | 90 - Northamptonshire County | 140 - Warwickshire County |
| 41 - East Sussex County | 91 - Northumberland | 141 - West Berkshire |
| 42 - Enfield | 92 - Nottingham | 142 - West Sussex County |
| 43 - Essex County | 93 - Nottinghamshire County | 143 - Westminster |
| 44 - Gateshead | 94 - Oldham | 144 - Wigan |
| 45 - Gloucestershire County | 95 - Oxfordshire County | 145 - Wiltshire |
| 46 - Greenwich | 96 - Peterborough | 146 - Windsor and Maidenhead |
| 47 - Hackney | 97 - Plymouth | 147 - Wirral |
| 48 - Halton | 98 - Portsmouth | 148 - Wokingham |
| 49 - Hammersmith and Fulham | 99 - Reading | 149 - Wolverhampton |
| 50 - Hampshire County | 100 - Redbridge | 150 - Worcestershire County |
| | | 151 - York |

Groundwater flood risk (JBA, 1km)

- No risk
- Groundwater levels are at least 5m below the ground surface in the 100-year return period flood event
- Groundwater levels are between 0.5m and 5m below the ground surface in the 100-year return period flood event
- Groundwater levels are between 0.025m and 0.5m below the ground surface in the 100-year return period flood event
- Groundwater levels are either at very near (within 0.025m of) the ground surface in the 100-year return period flood event

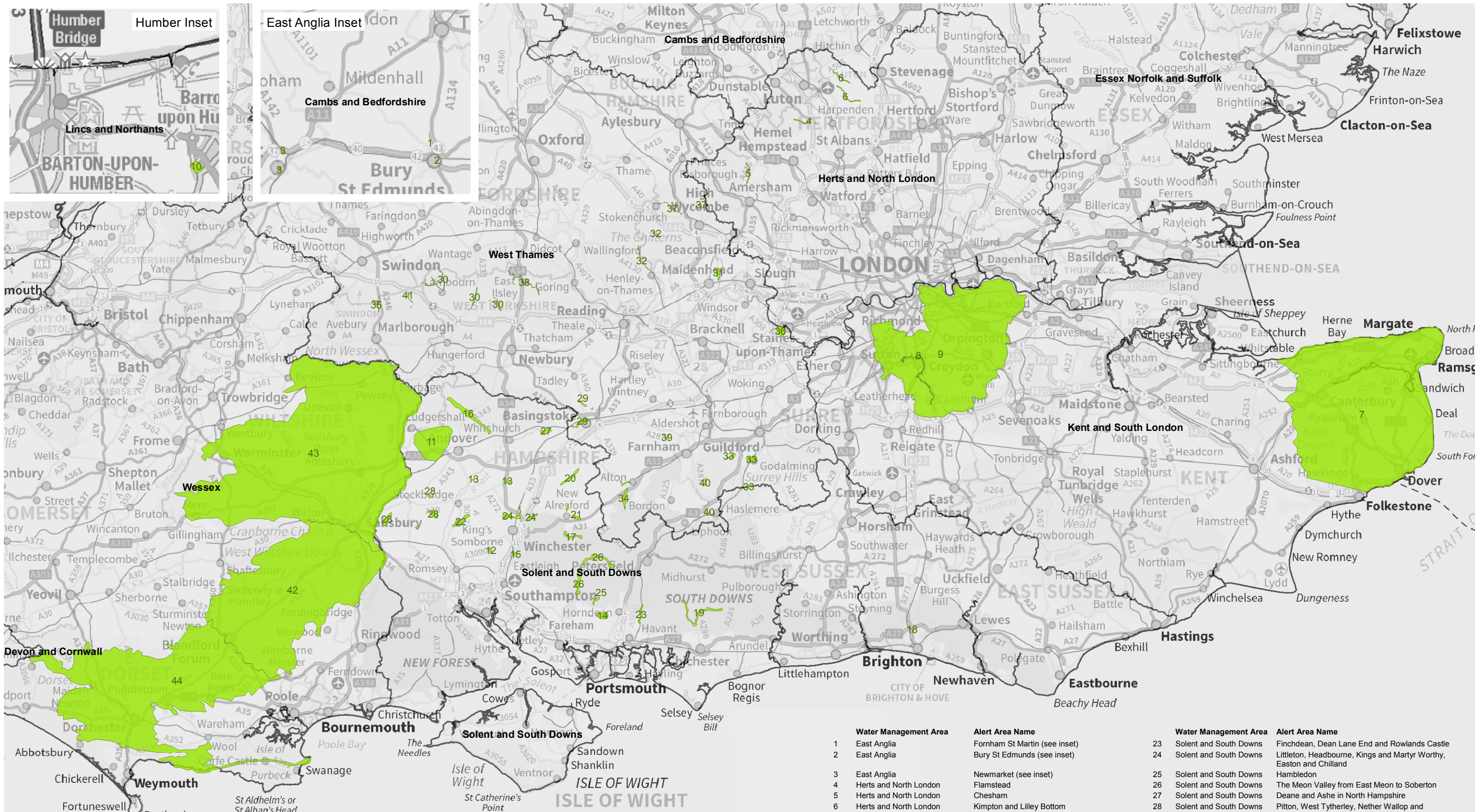
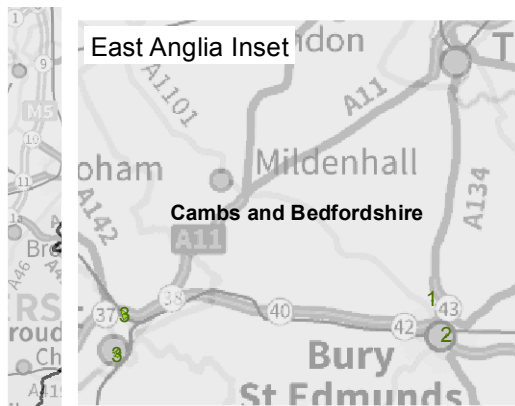
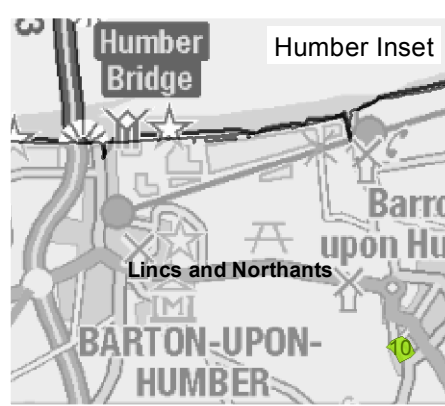


The groundwater flood risk is based on JBA's 5m National Groundwater Flood Risk Map, downscaled to a 1km grid resolution. The risk categorisation for each 1km grid has been calculated based on most common risk categorisation (at 5m) within each 1km grid square. The intention of this map is to indicate the general groundwater flood risk across LLFA areas and is not intended for groundwater flood risk assessment.

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Alert Area Number	Water Management Area	Alert Area Name	Alert Area Number	Water Management Area	Alert Area Name
1	East Anglia	Fornham St Martin (see inset)	23	Solent and South Downs	Finchdean, Dean Lane End and Rowlands Castle
2	East Anglia	Bury St Edmunds (see inset)	24	Solent and South Downs	Littleton, Headbourne, Kings and Martyr Worthy, Easton and Chilland
3	East Anglia	Newmarket (see inset)	25	Solent and South Downs	Hambledon
4	Herts and North London	Flamstead	26	Solent and South Downs	The Meon Valley from East Meon to Soberton
5	Herts and North London	Chesham	27	Solent and South Downs	Deane and Ashe in North Hampshire
6	Herts and North London	Kimpton and Lilley Bottom	28	Solent and South Downs	Pitton, West Tytherley, Nether Wallop and Broughton
7	Kent S London and E Sussex	East Kent	29	Thames	Basingstoke, Buckskin and Sherborne St John
8	Kent S London and E Sussex	Caterham Bourne catchment	30	Thames	Lambour Valley catchment
9	Kent S London and E Sussex	South East London	31	Thames	East Maidenhead
10	Lincs and Northants	South of the Humber Estuary (see inset)	32	Thames	Henley and Assendon
11	Solent and South Downs	The villages surrounding Andover	33	Thames	Godalming, Shackleford and Hambledon
12	Solent and South Downs	Hursley	34	Thames	Alton
13	Solent and South Downs	Sutton Scotney and Chilbolton	35	Thames	Upper Og Valley
14	Solent and South Downs	Denmead	36	Thames	Egham
15	Solent and South Downs	Twyford and Hensting	37	Thames	High Wycombe
16	Solent and South Downs	Vernham Dean, Upton and the Bourne Valley	38	Thames	West Ilsley, East Ilsley, Compton, Chilton and West Hagbourne
17	Solent and South Downs	Bramdean and Cheriton	39	Thames	Crandall
18	Solent and South Downs	Patcham	40	Thames	Haslemere and Churt
19	Solent and South Downs	West Dean, Singleton, Charlton, East Dean and Chilgrove	41	Thames	Upper Aldbourne Valley
20	Solent and South Downs	Candovers and Old Alresford	42	Wessex	Cranborne Chase
21	Solent and South Downs	Bishops Sutton	43	Wessex	Salisbury Plain
22	Solent and South Downs	Kings Somborne and Little Somborne	44	Wessex	The West of Dorset



Groundwater Flood Alert Areas