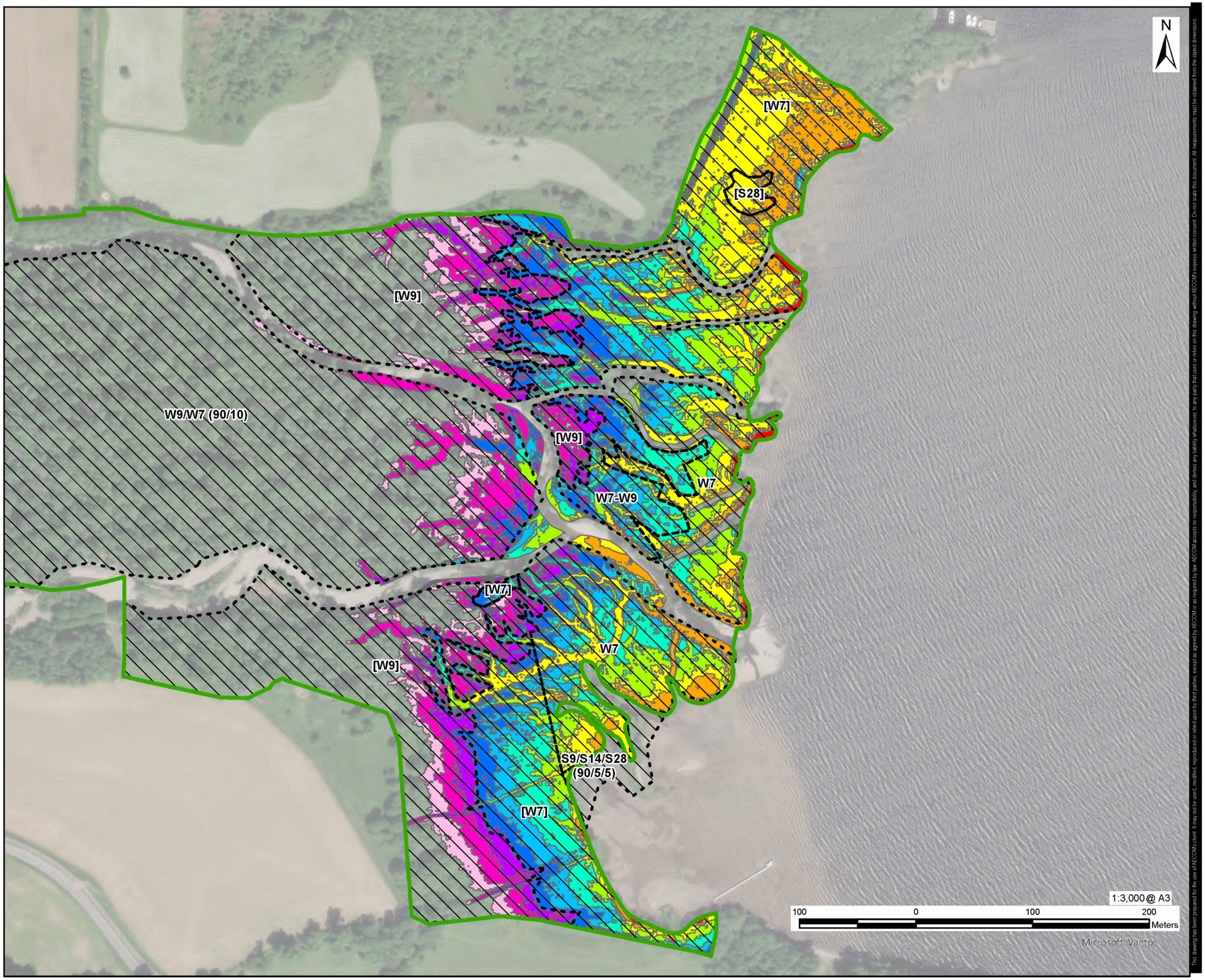
Drying Event Analysis
LnC + LK + GEE
Seasonal Variable Weir

Summer
(Jun-Aug)



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach PSH

CLIENT

Glen Earrach Energy Ltd

CONSULTANT

AECOM Limited
1 Tanfield
Edinburgh
EH3 5DA
www.aecom.com

LEGEND

SAC boundary

SAC boundary

NVC (labelled)

NVC (labelled)

Overlapped Predicted Water Areas at increasing heights (m), from median summer loch level of 15.7 m

- 15.7
- 15.9
- 16.1
- 16.3
- 16.5
- 16.7
- 16.9
- 17.1
- 17.3
- 17.5

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

NVC types without square brackets indicates areas accessed in summer 2024. Square brackets indicates that NVC type has been derived from information from site visits in late 2025 / early 2026, combined with LiDAR data in comparison to the W7/W9 seen in summer 2024.

ISSUE PURPOSE

FOR INFORMATION

PROJECT NUMBER

60719875

FIGURE TITLE

Predicted Water Areas overlaid with NVC for the relevant parts of Urquhart Bay Wood

FIGURE NUMBER

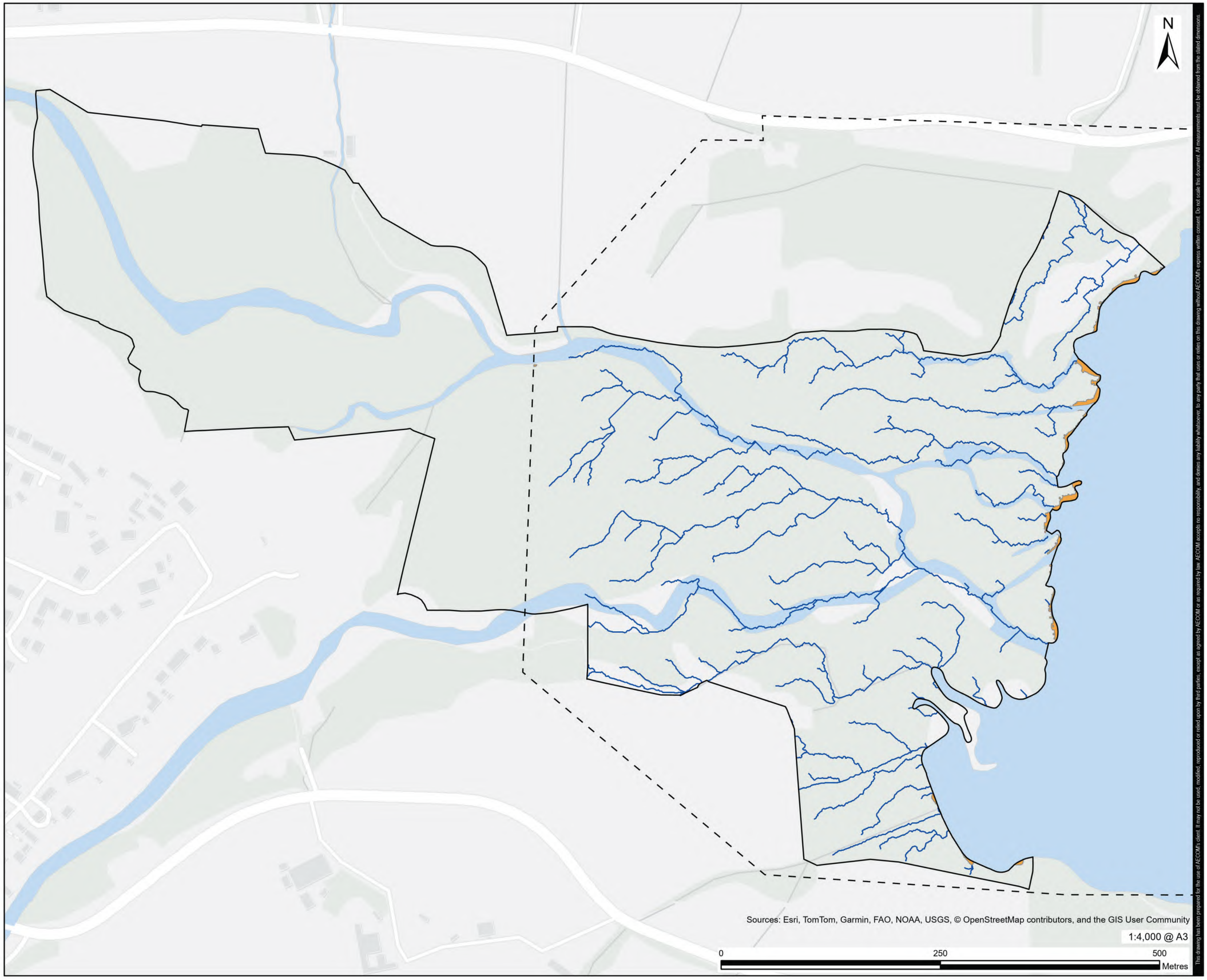
Figure 1

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
15.7	W7; S9 / S14 / S28	0.13	0.30	0.13	0.30
15.9	W7; S28	1.2	2.60	1.33	2.90
16.1	W7; S28	2.3	5.00	3.63	7.90
16.3	W7	1.95	4.20	5.58	12.10
16.5	W7	1.91	4.10	7.49	16.20
16.7	W7; W7–W9 (intermediate)	1.57	3.40	9.06	19.60
16.9	W7; W7–W9 (intermediate)	1.38	3.00	10.44	22.60
17.1	W7 / W9 (transition)	1.24	2.70	11.68	25.30
17.3	W9 dominant	1.52	3.30	13.2	28.60
17.5	W9 dominant	1.18	2.50	14.38	31.10

Drying Event
Level Threshold = 15.70 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
15.7	W7; S9 / S14 / S28	0.13	0.30	0.13	0.30

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 15.7m - 0.14ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

60719875

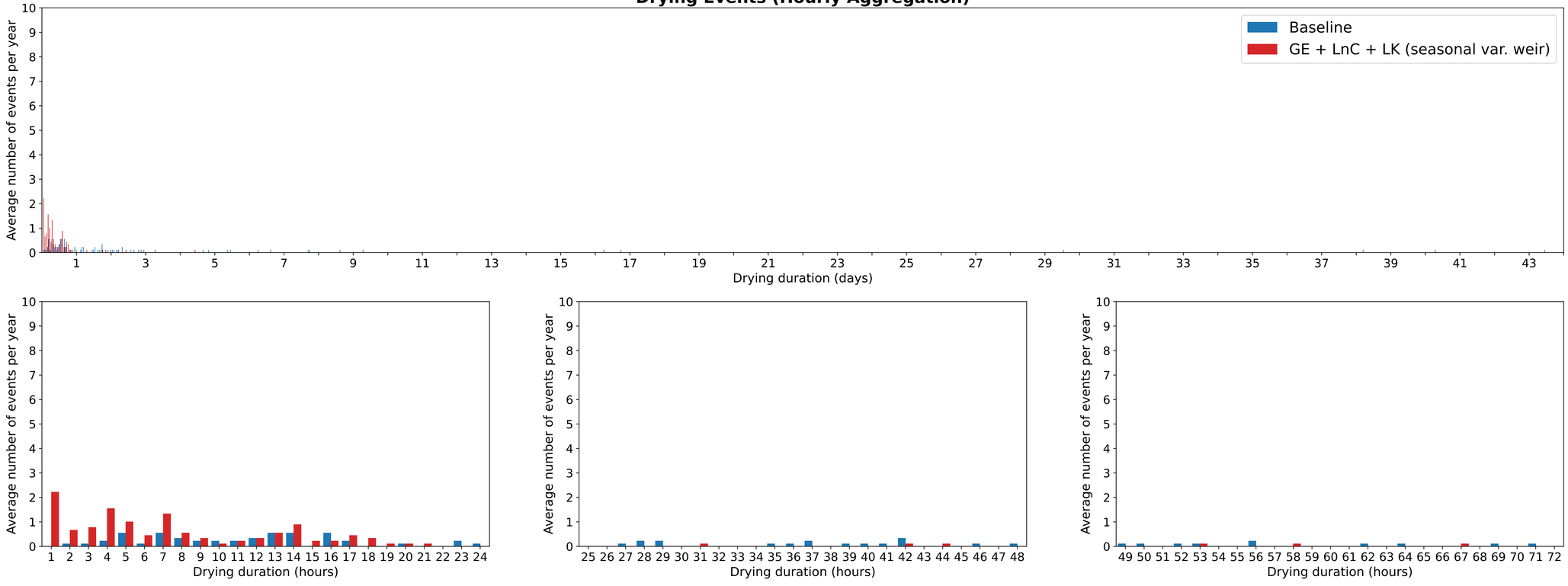
FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.1

Summer – Level [15.70] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



Note: Values represent average events per year (9-year dataset).

Summer – Level [15.70] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	5 hr	11 hr	23 hr	56 hr (2.3 days)	402 hr (16.8 days)
GE + LnC + LK (seasonal var. weir)	1 hr	3 hr	6 hr	13 hr	42 hr (1.8 days)

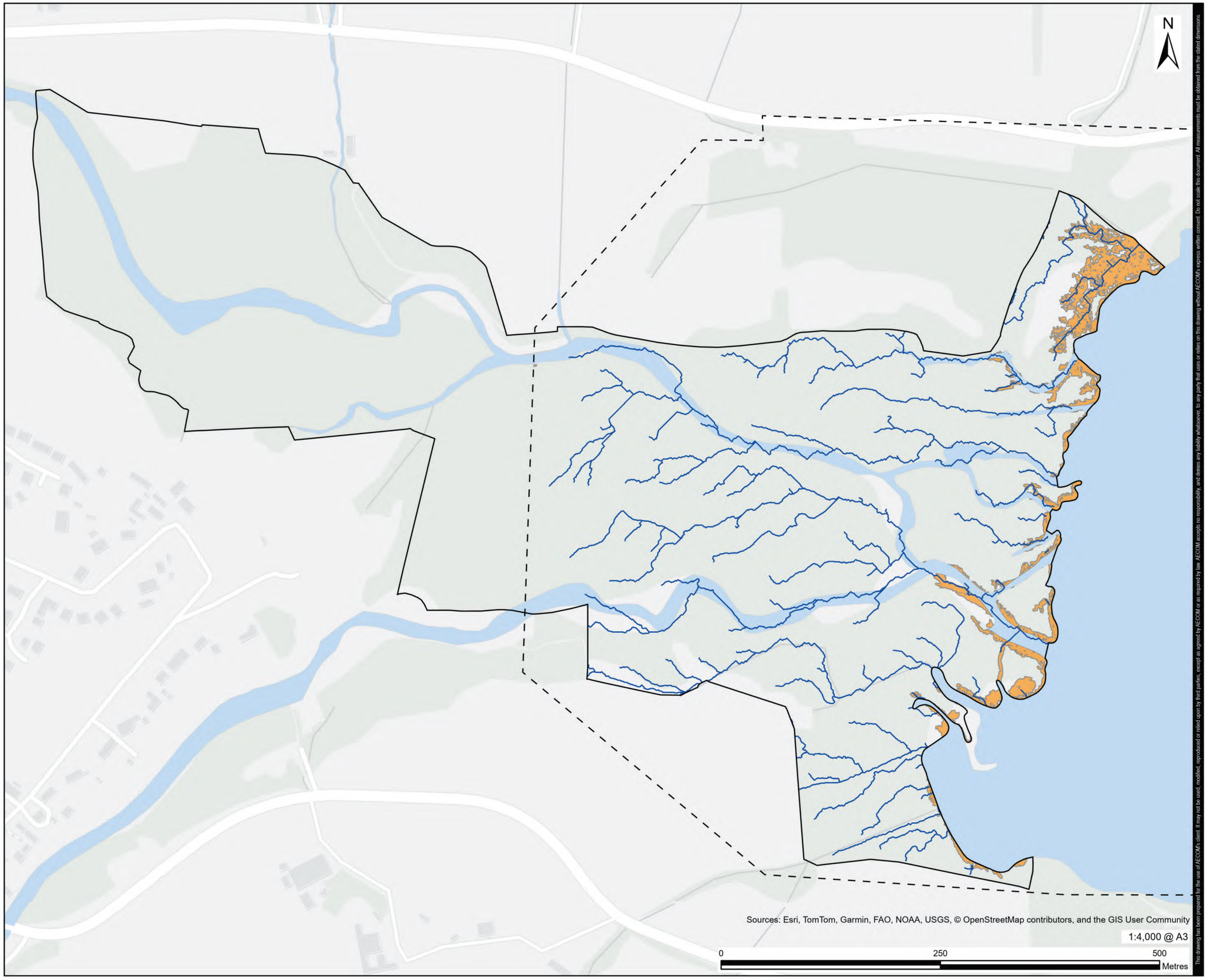
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	5.3	12.6
Sums of 25 – 72 hr (just over 1 day up to 3 days)	3.0	0.7
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.8	0.1
Sums of > 168 hr (over 1 week)	1.1	0.0

Drying Event
Level Threshold = 15.90 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
15.9	W7; S28	1.2	2.60	1.33	2.90

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 15.9m - 1.33ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

60719875

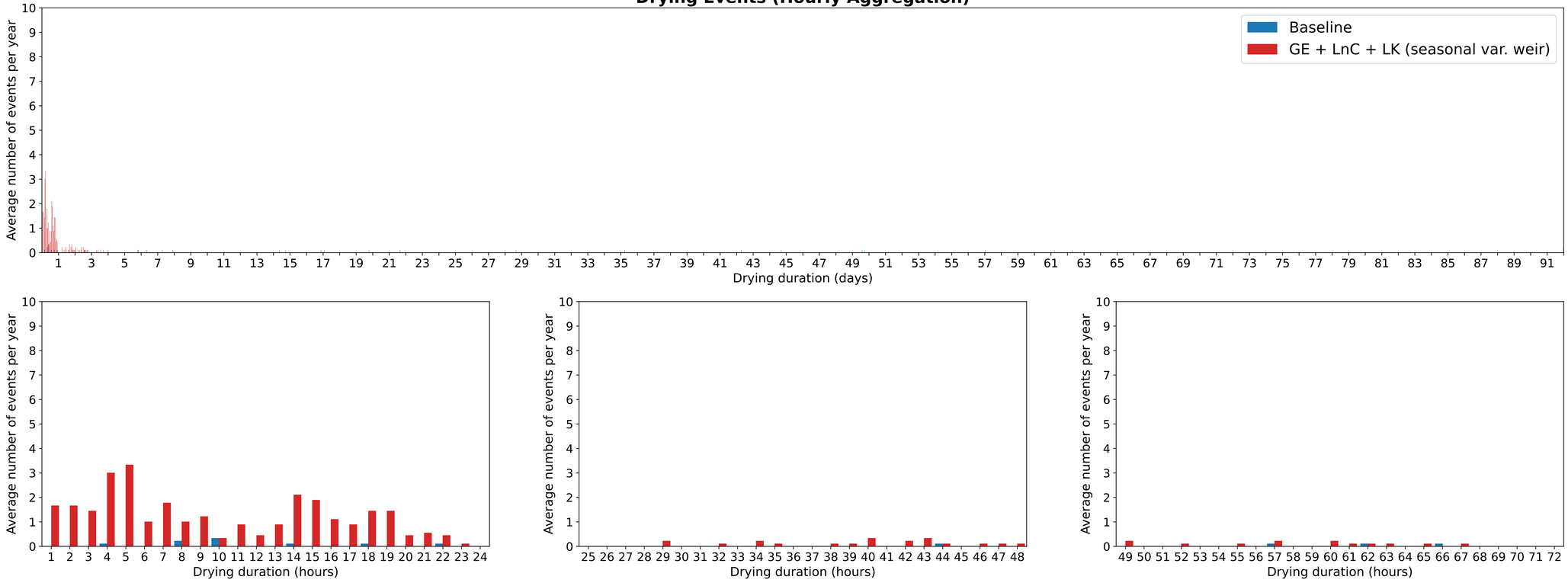
FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.2

Summer – Level [15.90] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



Note: Values represent average events per year (9-year dataset).

Summer – Level [15.90] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	8 hr	22 hr	175 hr (7.3 days)	1015 hr (42.3 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	2 hr	5 hr	11 hr	18 hr	55 hr (2.3 days)

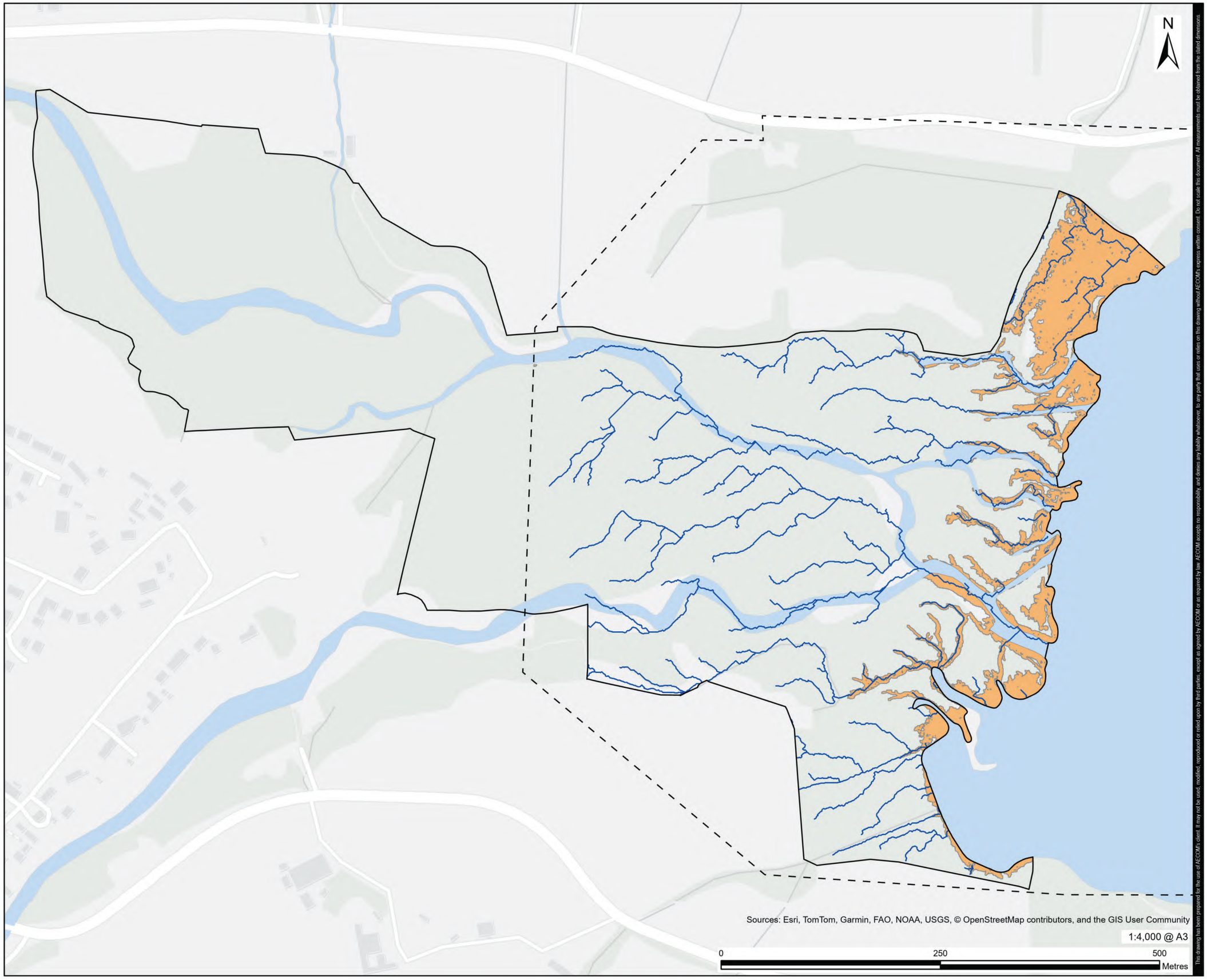
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	1.0	29.1
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.4	3.7
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.3	0.6
Sums of > 168 hr (over 1 week)	2.0	0.1

Drying Event
Level Threshold = 16.10 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.1	W7; S28	2.3	5.00	3.63	7.90

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 16.1m - 3.63ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

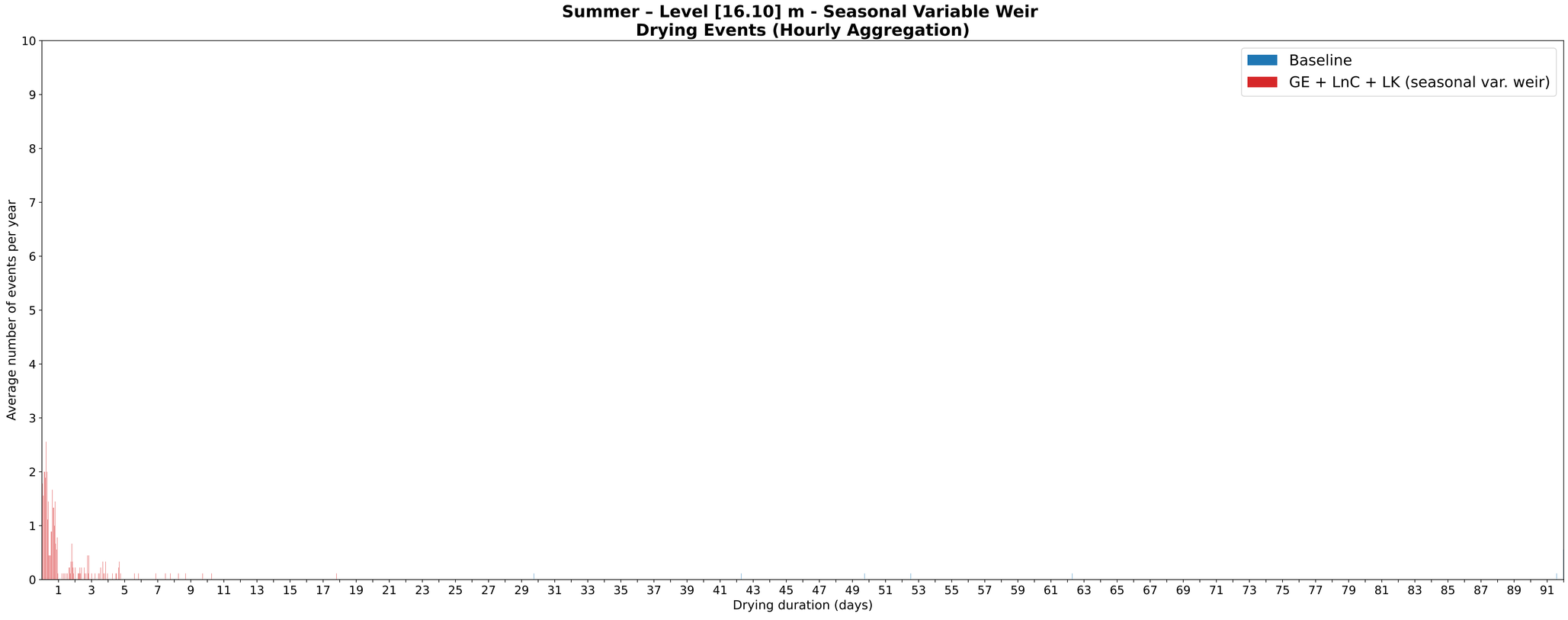
60719875

FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.3



Note: Values represent average events per year (9-year dataset).

Summer – Level [16.10] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	714 hr (29.8 days)	1194 hr (49.8 days)	2198 hr (91.6 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	2 hr	6 hr	14 hr	22 hr	108 hr (4.5 days)

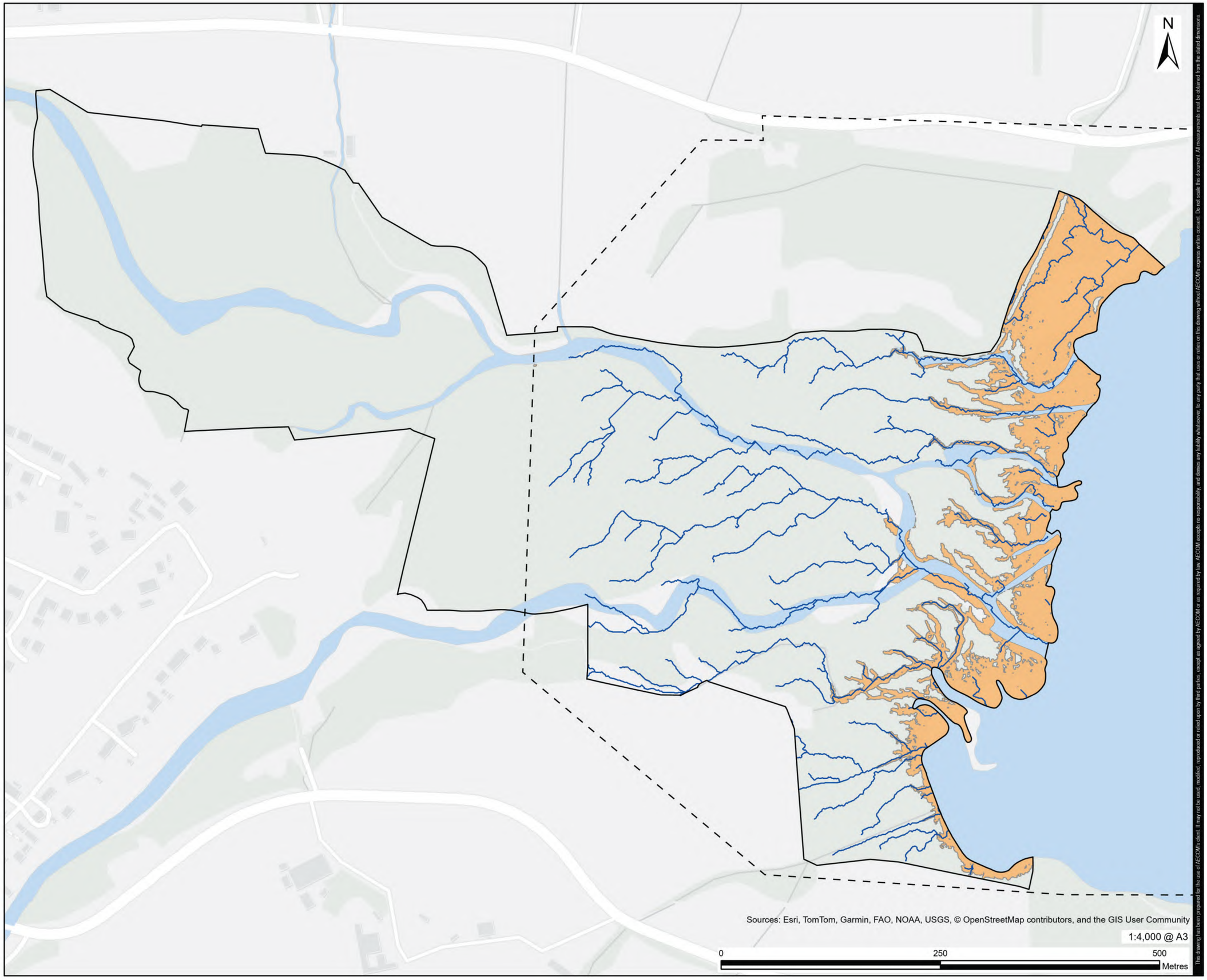
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	28.3
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	5.4
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	2.9
Sums of > 168 hr (over 1 week)	1.2	0.8

Drying Event
Level Threshold = 16.30 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.3	W7	1.95	4.20	5.58	12.10

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 16.3m - 5.58ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

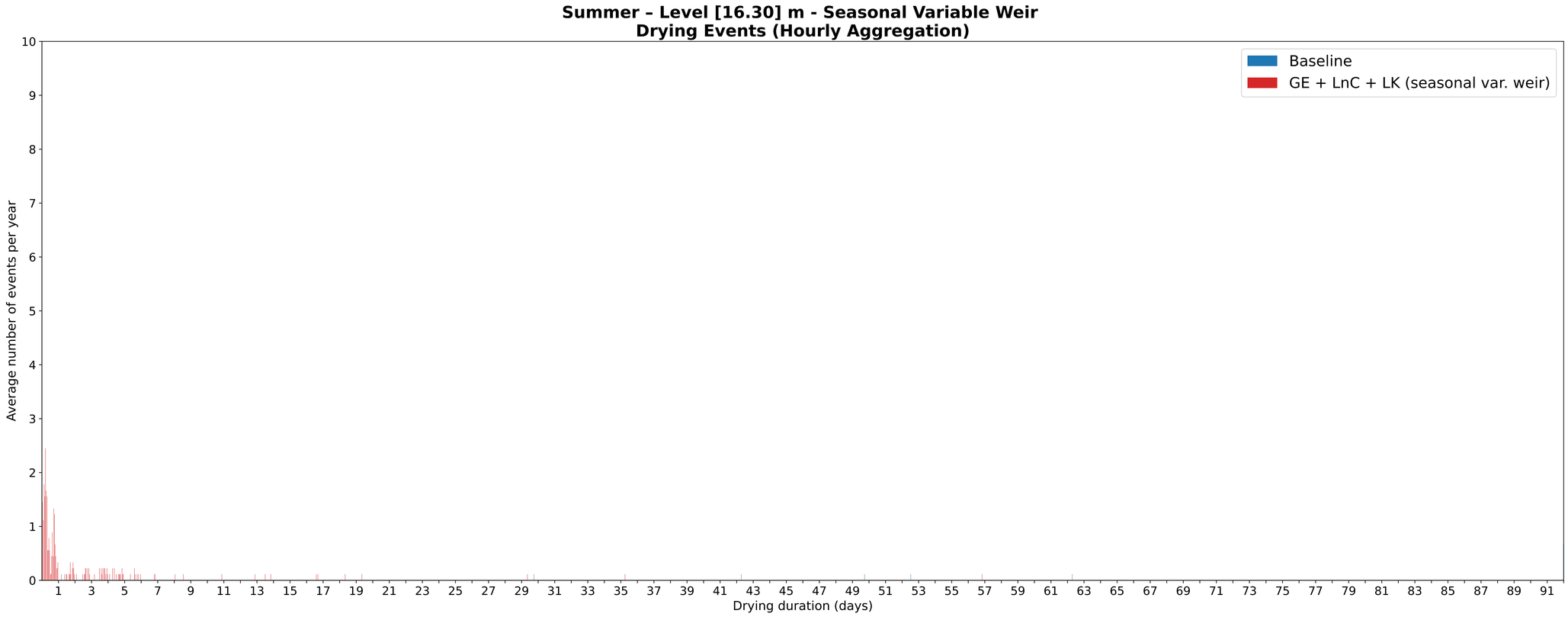
60719875

FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.4



Note: Values represent average events per year (9-year dataset).

Summer – Level [16.30] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	2 hr	5 hr	15 hr	46 hr (1.9 days)	164 hr (6.8 days)

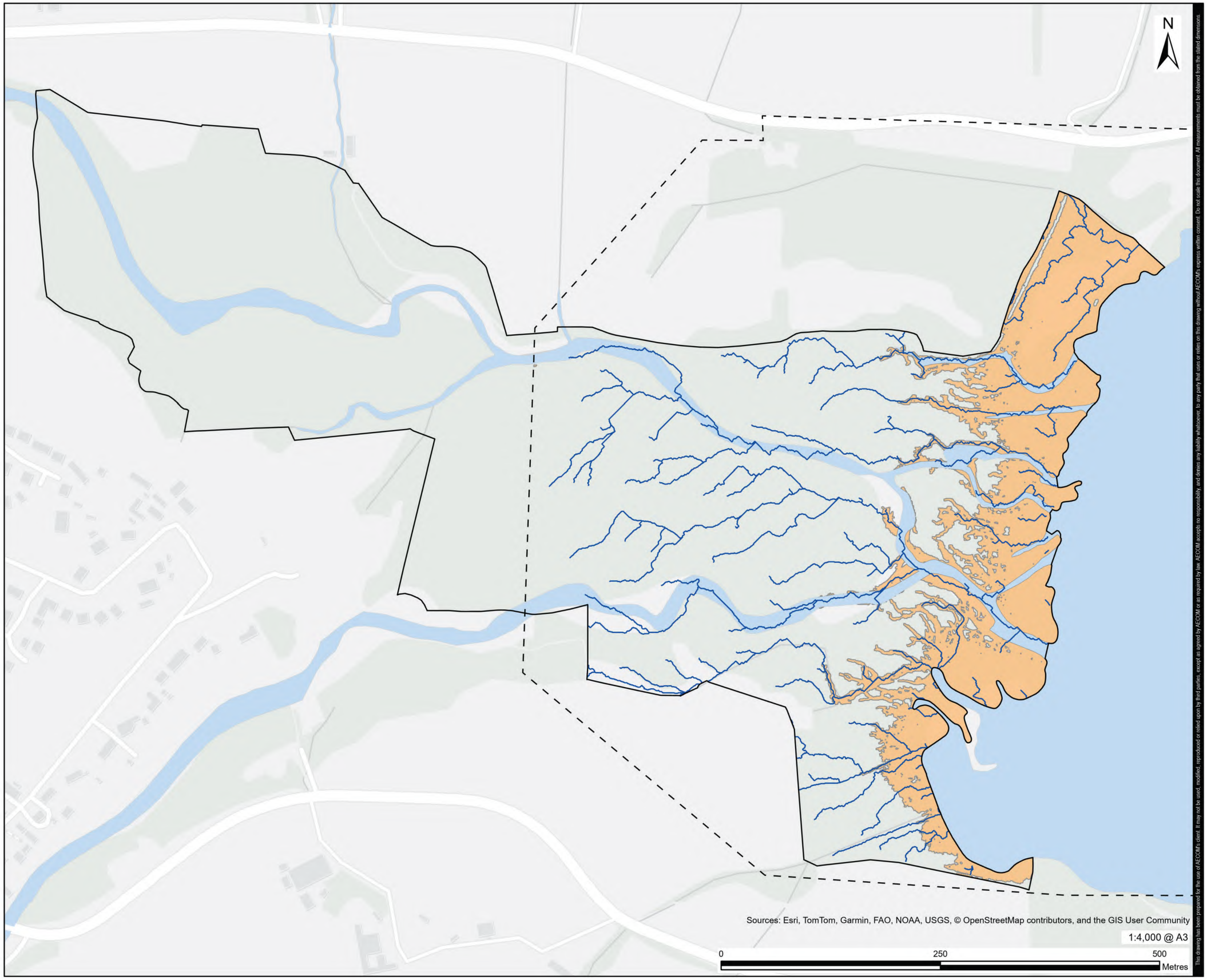
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	20.4
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	3.4
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	4.3
Sums of > 168 hr (over 1 week)	1.2	1.4

Drying Event
Level Threshold = 16.50 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.5	W7	1.91	4.10	7.49	16.20

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 16.5m - 7.49ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

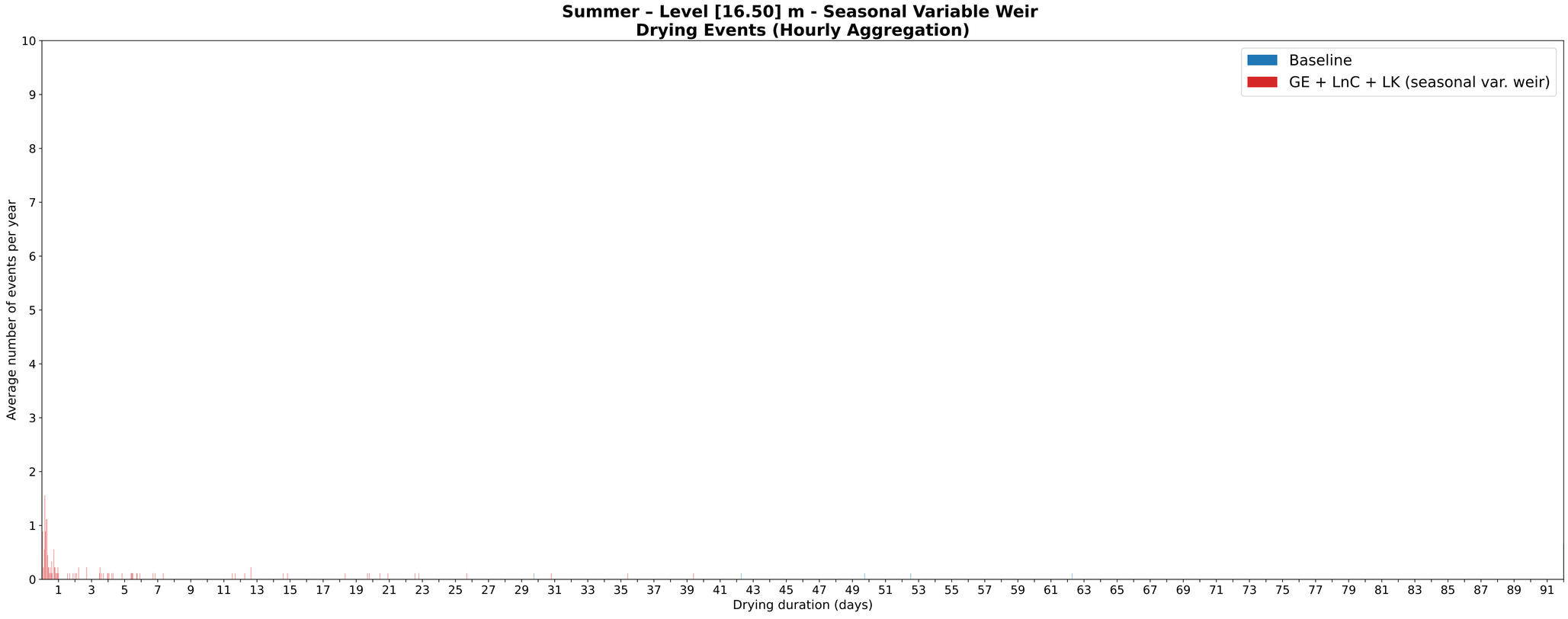
60719875

FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.5



Note: Values represent average events per year (9-year dataset).

Summer – Level [16.50] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	1 hr	5 hr	14 hr	96 hr (4.0 days)	547 hr (22.8 days)

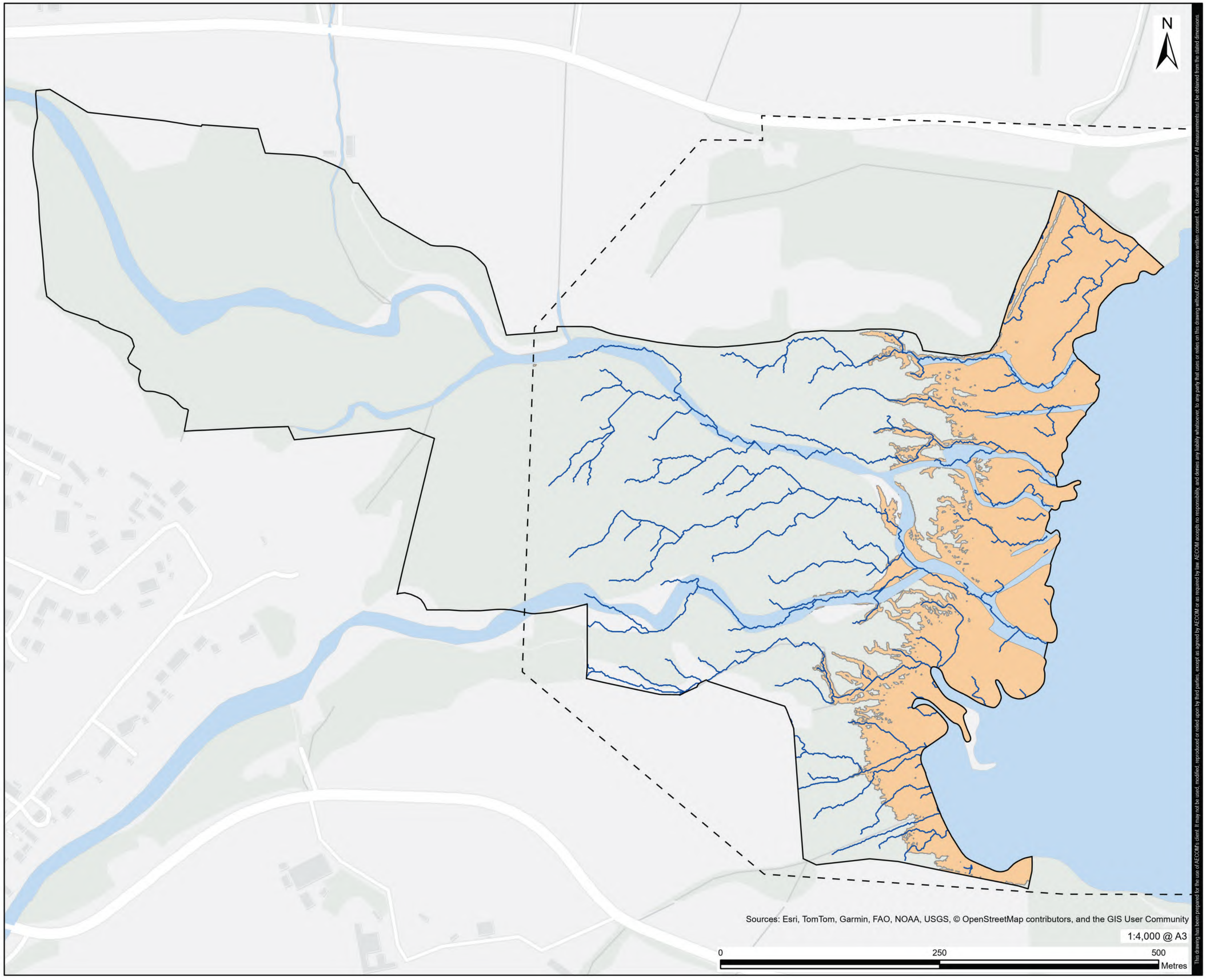
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	9.8
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	1.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	2.2
Sums of > 168 hr (over 1 week)	1.2	2.3

Drying Event
Level Threshold = 16.70 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.7	W7; W7–W9 (intermediate)	1.57	3.40	9.06	19.60

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 16.7m - 9.06ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

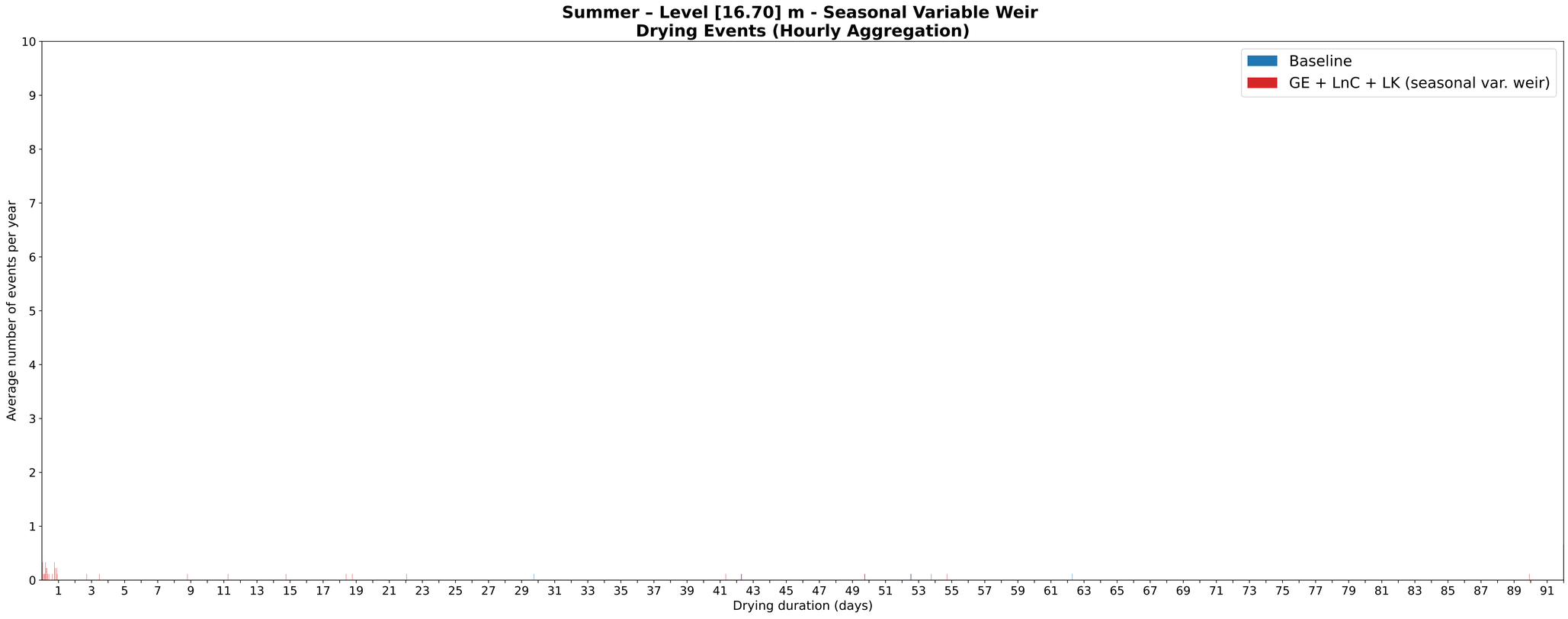
60719875

FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.6



Note: Values represent average events per year (9-year dataset).

Summer – Level [16.70] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	1 hr	6 hr	19 hr	529 hr (22.0 days)	2208 hr (92.0 days)

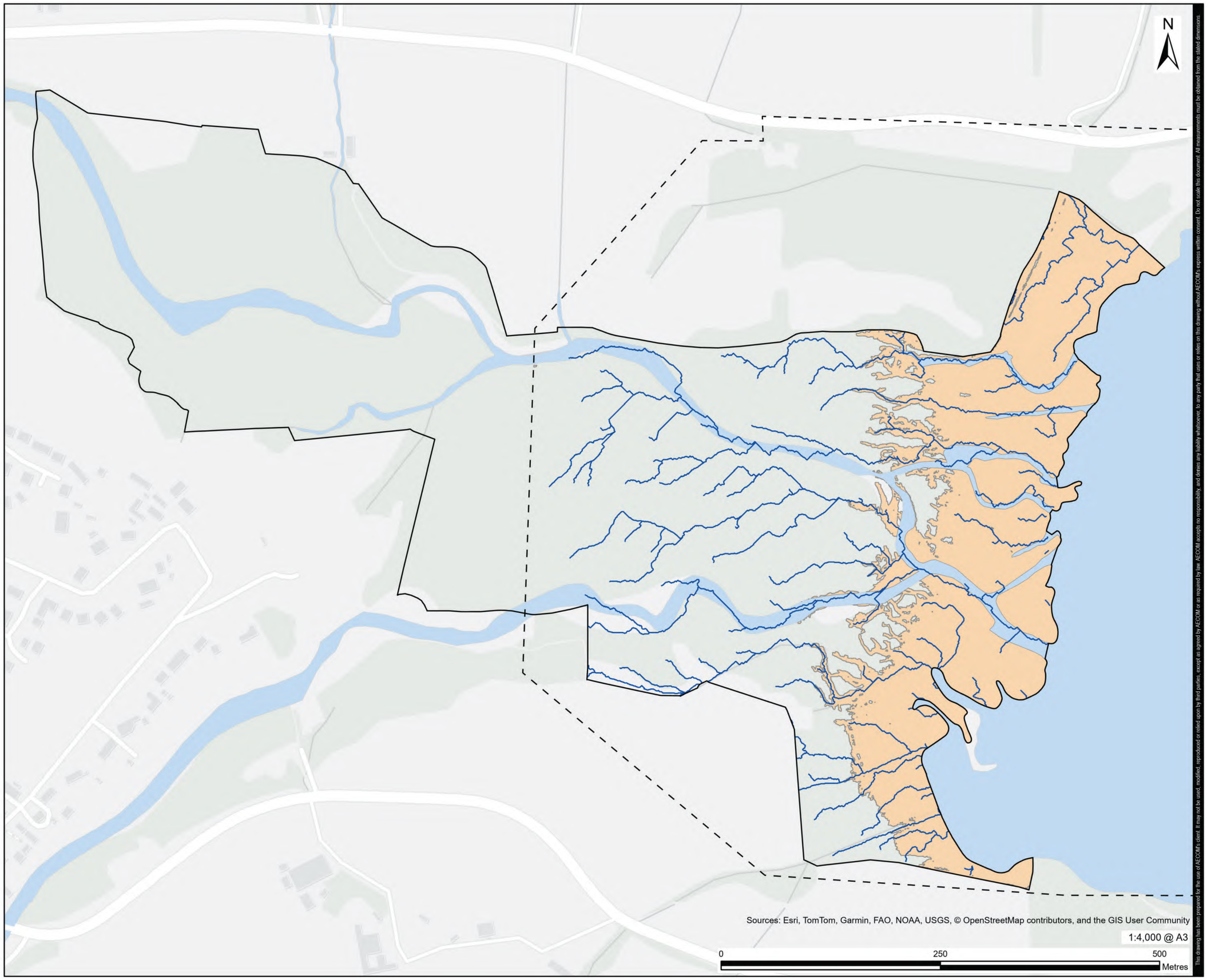
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	2.7
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.1
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.1
Sums of > 168 hr (over 1 week)	1.2	1.8

Drying Event
Level Threshold = 16.90 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.9	W7; W7–W9 (intermediate)	1.38	3.00	10.44	22.60

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 16.9m - 10.44ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

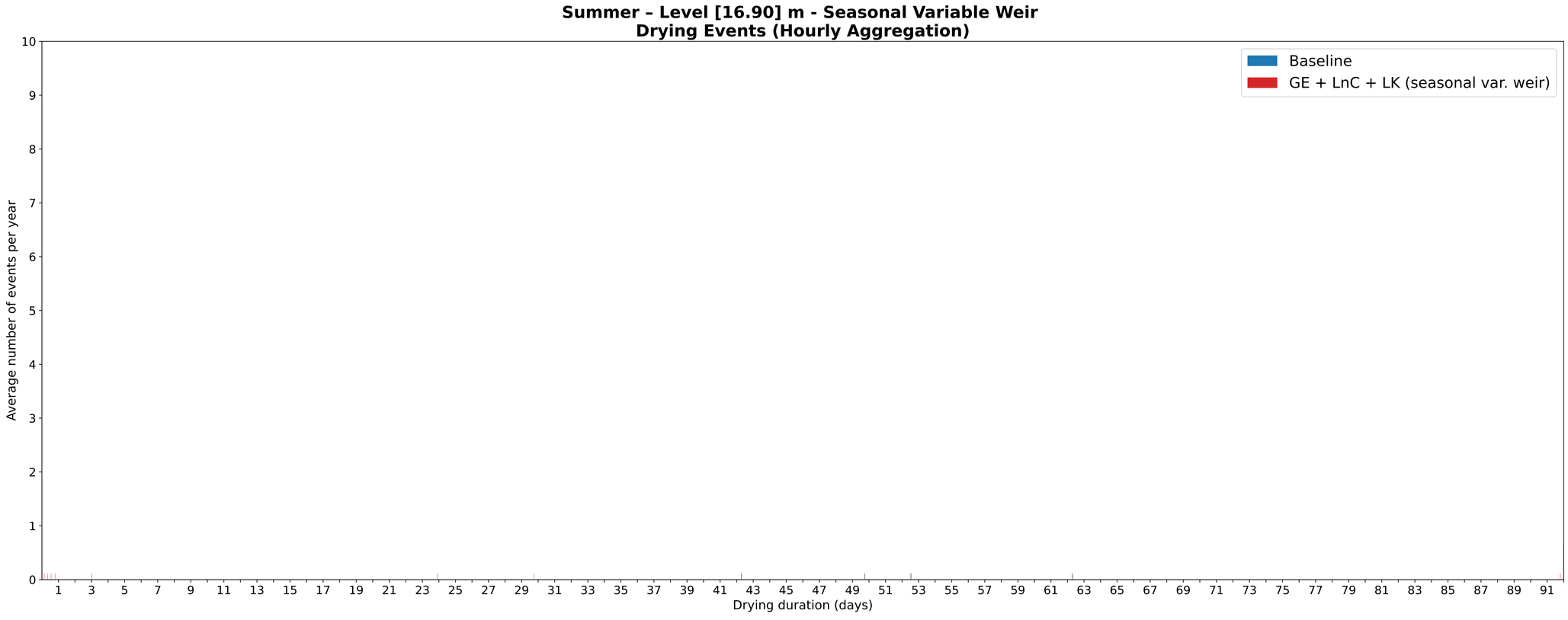
60719875

FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.7



Note: Values represent average events per year (9-year dataset).

Summer – Level [16.90] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	3 hr	72 hr (3.0 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

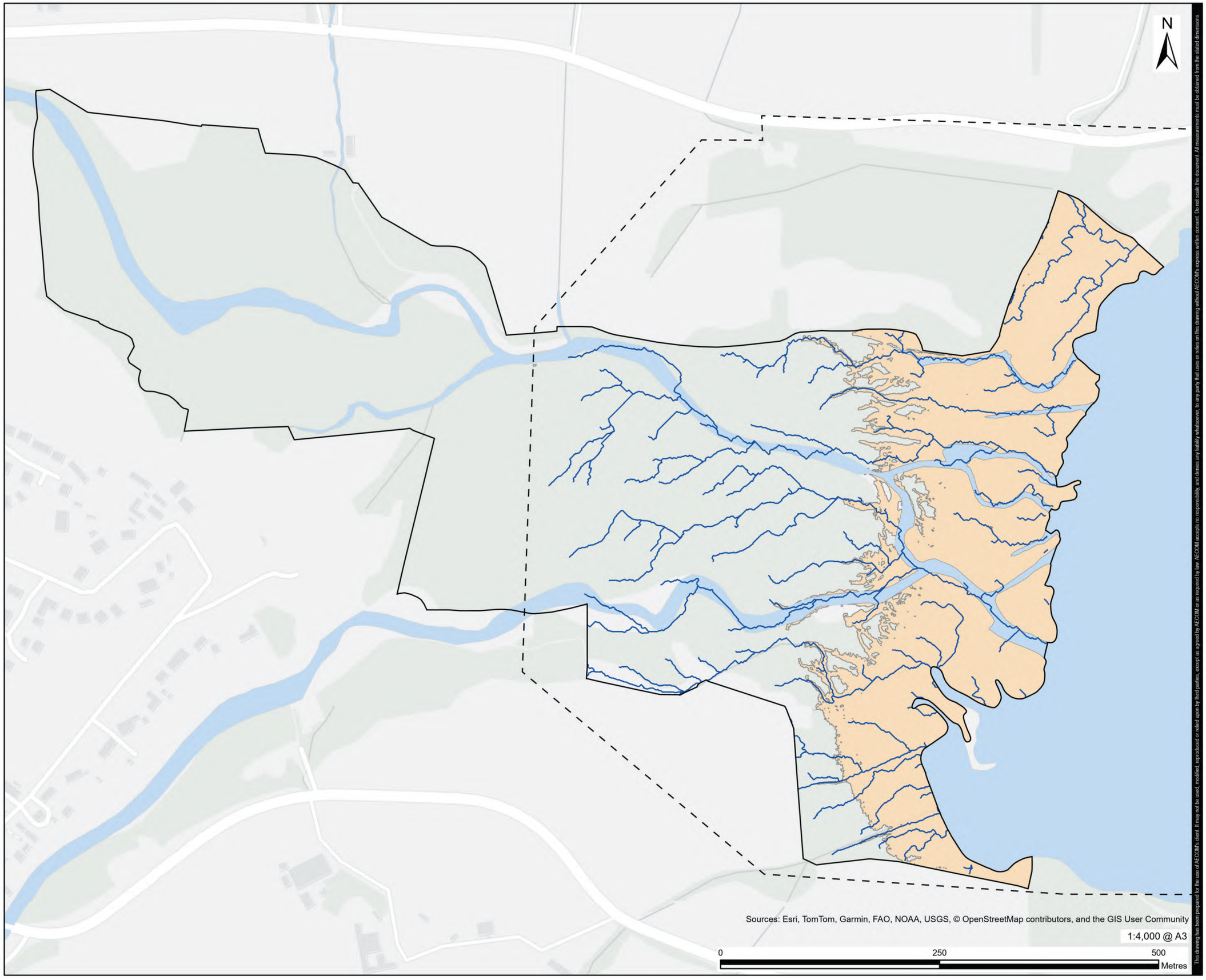
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	0.4
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.1
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.2	1.2

Drying Event
Level Threshold = 17.10 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
17.1	W7 / W9 (transition)	1.24	2.70	11.68	25.30

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 17.1m - 11.68ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

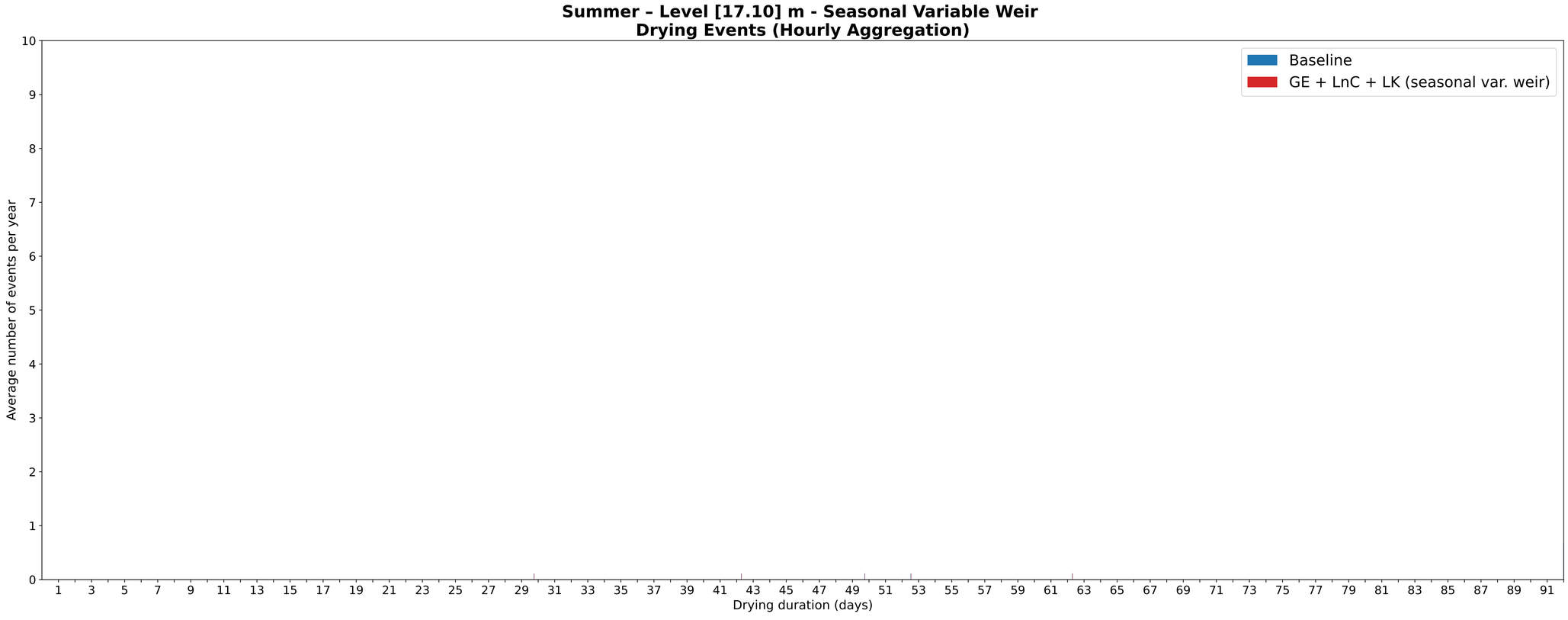
60719875

FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.8



Note: Values represent average events per year (9-year dataset).

Summer – Level [17.10] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

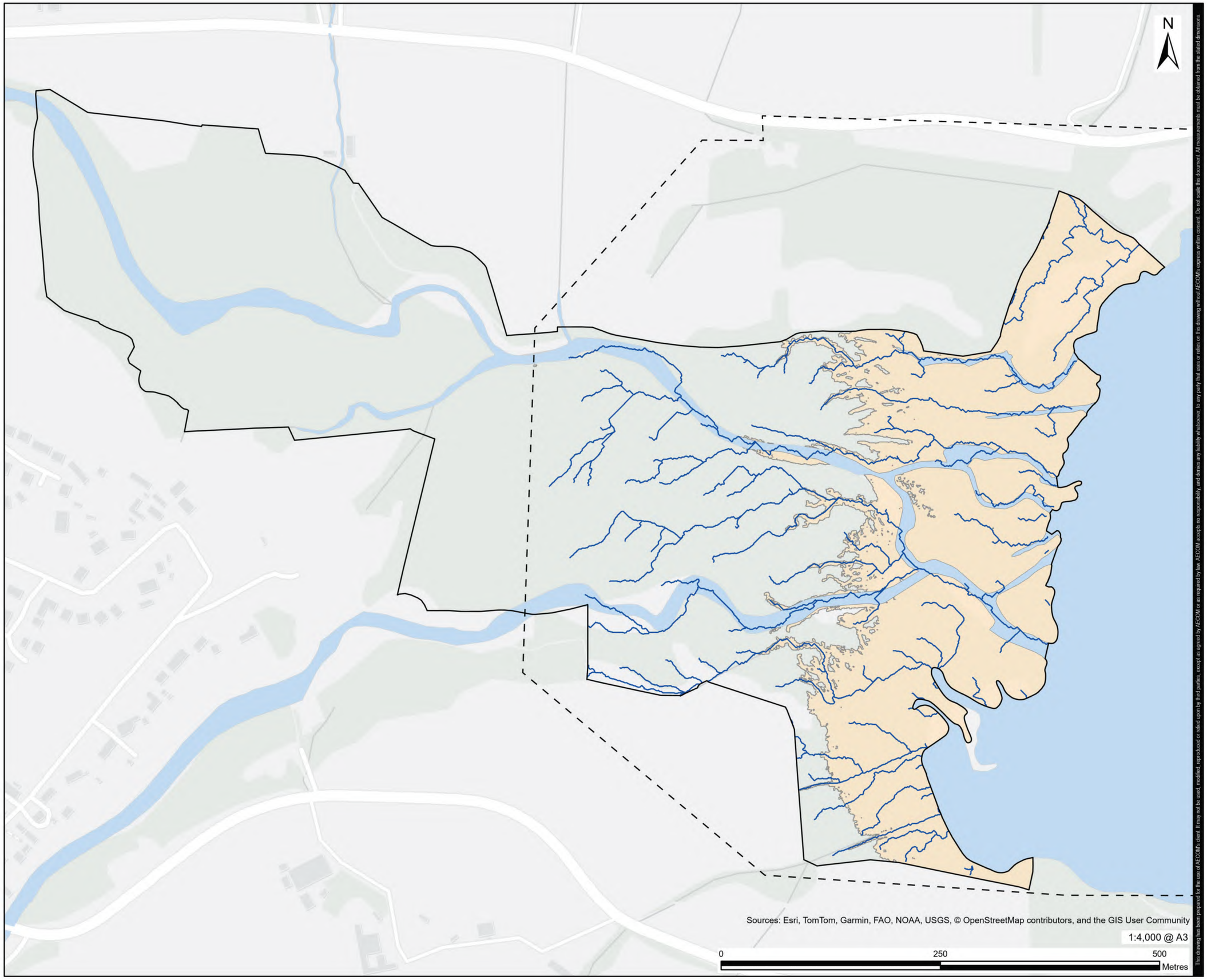
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.2	1.2

Drying Event
Level Threshold = 17.30 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
17.3	W9 dominant	1.52	3.30	13.2	28.60

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 17.3m - 13.20ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

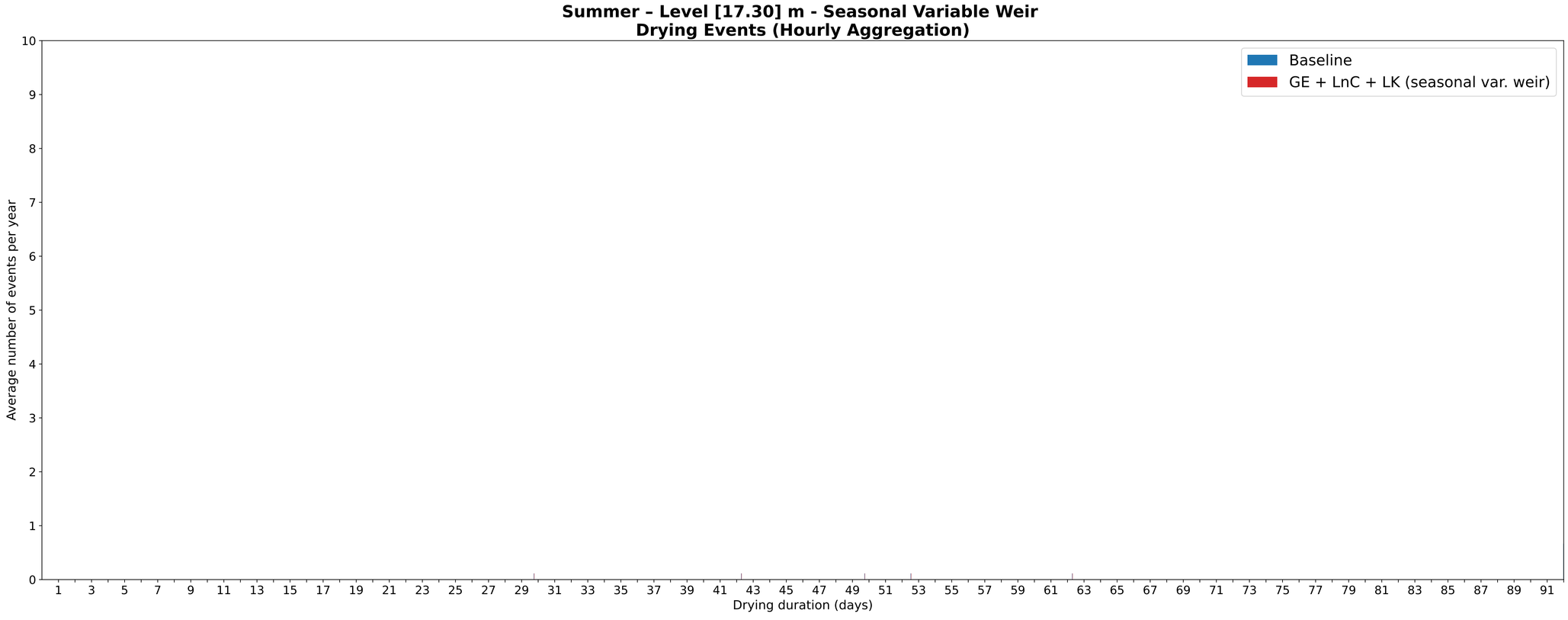
60719875

FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.9



Note: Values represent average events per year (9-year dataset).

Summer – Level [17.30] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

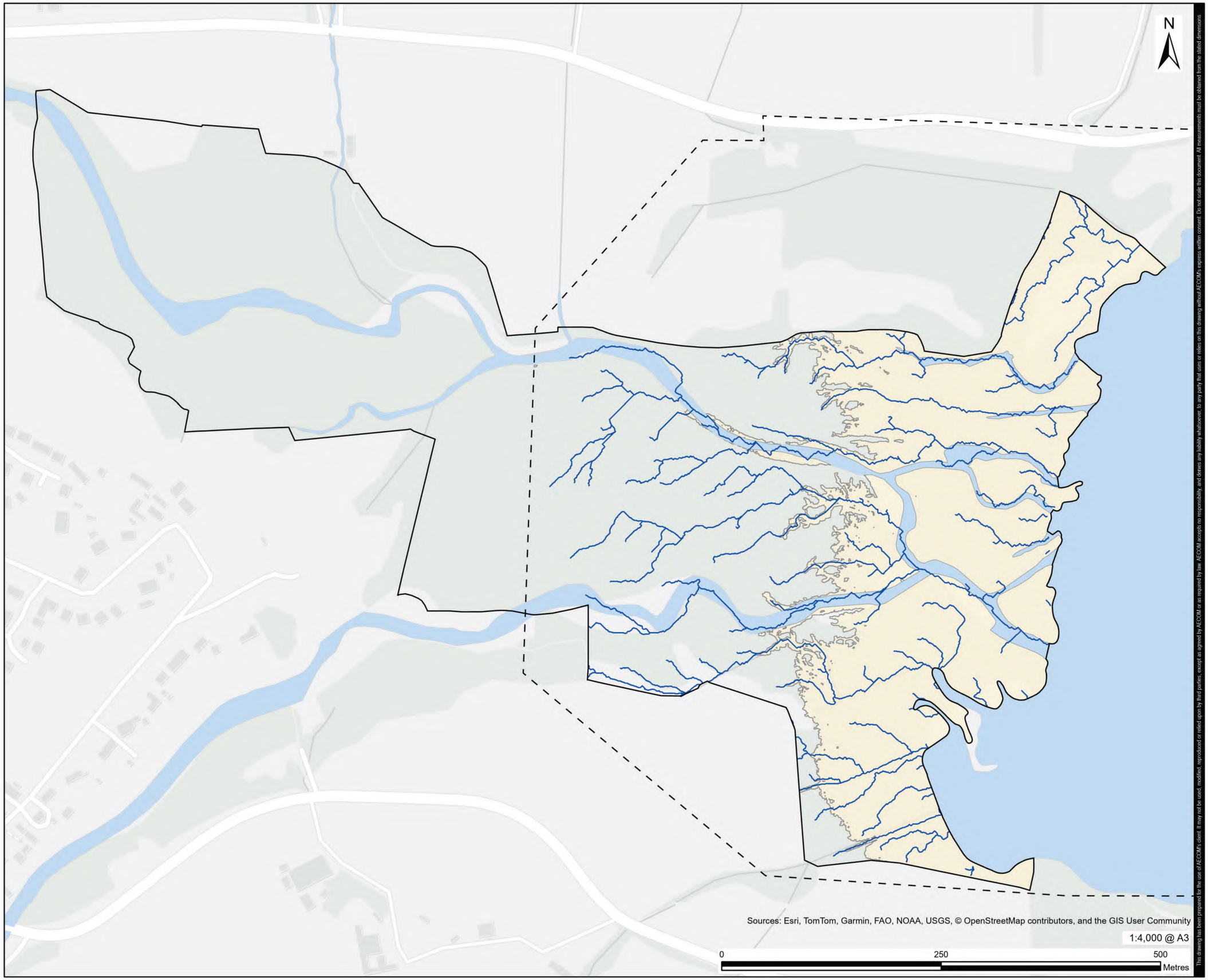
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.2	1.2

Drying Event
Level Threshold = 17.50 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
17.5	W9 dominant	1.18	2.50	14.38	31.10

Revision: 0 Drawn: AM Checked: AR Approved: AR Date: 2026-01-16



This drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM accepts no responsibility, and denies any liability whatsoever, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

AECOM

PROJECT

Glen Earrach Pumped Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
London, E1 8FA
United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 17.5m - 14.38ha

NOTES

© Crown Copyright 2026. All rights reserved. Ordnance Survey Licence AC0000808122.

Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

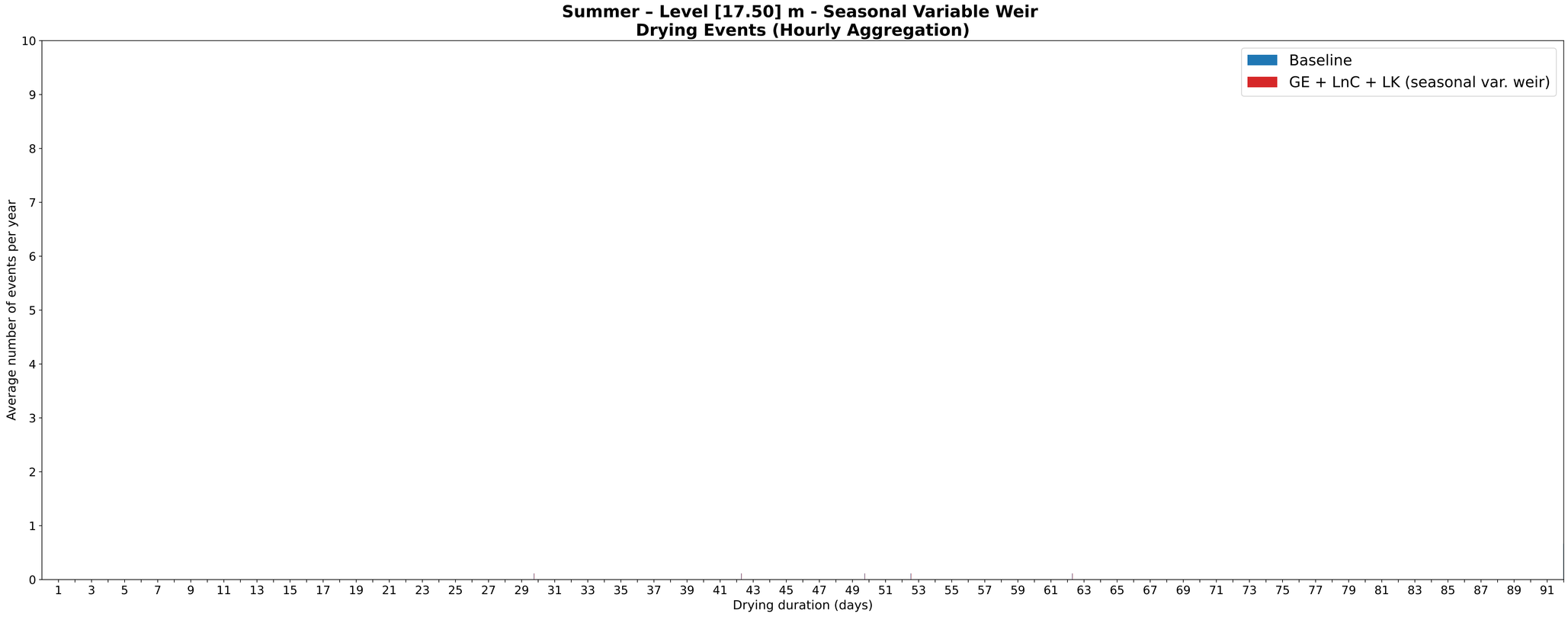
60719875

FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.10



Note: Values represent average events per year (9-year dataset).

Summer – Level [17.50] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	714 hr (29.8 days)	1194 hr (49.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.2	1.2