## Appendix 7.4 PSYM Pond Habitat Quality **Assessment Summaries for Surveys** Undertaken in July 2013



Description	Macrophytes			Invertebrates			Index of	Quality
	Number of submerged and emergent plant species	Number of uncommon plant species	Trophic ranking score for aquatic and emergent plants	Average score per taxon	Number of dragonfly ( <i>Odonta</i> ) and alderfly ( <i>Megaloptera</i> ) families	Number of beetle ( <i>Coleoptera</i> ) families	<ul> <li>Biotic</li> <li>Integrity</li> <li>Score</li> </ul>	assessment
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Situated at the top of the Hampstead Chain this is the third largest pond at a surface area of 8,646m <sup>2</sup> . The depth of the pond is approximately 1.5 to 2m with silt and sand substrate throughout. The margins of the lake are dominated by bankside trees (25% shade) with patches of emergent macrophytes that provide approximately 2% cover. The pond also supports the highest number of submerged plant species (No. 4) as well as floating leaved plants.	14	4	8.56	3.40	0	0	44	Poor
This is the smallest pond in the chain at a surface area of 3,329m <sup>2</sup> and is located within a steep sided valley setting. The depth is approximately 1 to 1.5m throughout and the substrate dominated by silt which has accumulated to depth of over 1m in places. The pond margin is characterised by the presence of trees (10 shade) and emergent plants (15% cover). The pond also supports an abundance of submerged plant species composed of three species.	11	3	8.83	4.18	2	1	61	Moderate
This is the second smallest pond in the chain at a surface area of 7,148m <sup>2</sup> . The pond is generally between 2m and 3m deep with a silt substrate throughout. The pond supports a limited range of aquatic plants with only 1% emergent plant cover. The centre of the pond is buoyed off for swimming. The pond margin is characterised by the presence of overhanging trees and is heavily shaded (40% shading), although these are absent on the downstream dam face. This pond supports the fewest number of emergent and submerged plant species (No. 4).	4	2	9.17	3.67	0	0	33	Poor
This is the second largest pond in the chain at a surface area of 10,910m <sup>2</sup> . The pond is approximately 4m at its deepest point, although is more generally 1 to 2m in depth with a silt substrate. The eastern and western banks are moderately shaded by bankside trees with emergent macrophytes in the shallower margins (10% cover). The southern and northern banks are re-inforced with a hard edge and therefore have very little emergent vegetation. The pond also supports four species of submerged and floating leaved plants.	13	2	8.64	3.94	1	0	44	Poor
This is the largest of the ponds in the Hampstead Chain at a surface are of 15,190m <sup>2</sup> . The pond is generally >2m deep and has a gravel and silt substrate throughout. Silt accumulations are in excess of 1m in places. The margins of the pond are dominated by bankside trees (20% shade) with emergent macrophytes in the margins (15% cover). This pond supports the greatest number of submerged and emergent plant species (No. 16) with submerged species being abundant throughout the pond.	16	4	8.75	4.69	1	0	56	Moderate
	Situated at the top of the Hampstead Chain this is the third largest pond at a surface area of 8,646m <sup>2</sup> . The depth of the pond is approximately 1.5 to 2m with silt and sand substrate throughout. The margins of the lake are dominated by bankside trees (25% shade) with patches of emergent macrophytes that provide approximately 2% cover. The pond also supports the highest number of submerged plant species (No. 4) as well as floating leaved plants. This is the smallest pond in the chain at a surface area of 3,329m <sup>2</sup> and is located within a steep sided valley setting. The depth is approximately 1 to 1.5m throughout and the substrate dominated by silt which has accumulated to depth of over 1m in places. The pond margin is characterised by the presence of trees (10 shade) and emergent plants (15% cover). The pond also supports an abundance of submerged plant species composed of three species. 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The southern and northern banks are re-inforced with a hard edge and therefore have very little emergent vegetation. The pond also supports four species of submerged and floating leaved plants.	Situated at the top of the Hampstead Chain this is the third largest pond at a surface area of 8,646m <sup>2</sup> . The depth of the pond is approximately 1.5 to 2m with silt and sand substrate throughout. The margins of the lake are dominated by bankside trees (25% shade) with patches of emergent macrophytes that provide approximately 2% cover. The pond also supports the highest number of submerged plant species (No. 4) as well as floating leaved plants.         14           This is the smallest pond in the chain at a surface area of 3,329m <sup>2</sup> and is located within a steep sided valley setting. The depth is approximately 1 to 1.5m throughout and the substrate dominated by silt which has accumulated to depth of over 1m in places. The pond margin is characterised by the presence of trees (10 shade) and emergent plants (15% cover). The pond also supports an abundance of submerged plant species composed of three species.         11           This is the second smallest pond in the chain at a surface area of 7,148m <sup>2</sup> . The pond is generally between 2m and 3m deep with a silt substrate throughout. The pond supports the freesence of overhanging trees and is heavily shaded (40% shading), although these are absent on the downstream dam face. This pond supports the fewest number of emergent and submerged plant species (No. 4).         13           This is the second largest pond in the chain at a surface area of 10,910m <sup>2</sup> . The pond is approximately 4m at its deepest point, although is more generally to 2m in depth with a silt substrate. The eastern and western banks are moderately shaded by bankside trees with emergent macrophytes in the shallower margins (10% cover). The southern and northern banks are re-inforced with a hard edge and therefore have very little emergent equation. The pond as gurports of submerged Chain at a surface are of 15,190m <sup>2</sup> . The pond is generally 2.2m deep and has a gravel and	Number of submerged and emergent plant species         Number of submerged and emergent plant species         Number of submerged and emergent plant species           Situated at the top of the Hampstead Chain this is the third largest pond at a surface area of 8,646m <sup>2</sup> . The depth of the pond is approximately 1.5 to 2m dominated by bankside trees (25% shade) with patches of emergent macrophytes that provide approximately 2% cover. The pond also supports the highest number of submerged plant species (No. 4) as well as floating leaved plants.         14         4           This is the smallest pond in the chain at a surface area of 3,329m <sup>2</sup> and is located within a steep sided valley setting. The depth is approximately 1 to 1.5 m throughout and the substrate dominated by silt which has accumulated to depth of over 1m in places. The pond margin is characterised by the presence of trees (10 shade) and emergent plants (15% cover). The pond also supports an abundance of submerged plant species composed of three species.         11         3           This is the second smallest pond in the chain at a surface area of 7,148m <sup>2</sup> . The pond is generally between 2m and 3m deep with a silt substrate throughout. The pond supports a limited range of aquatic plants with only 1% emergent plant cover. The centre of the pond is buoyed off for swimming. The pond supports the fewest number of emergent and submerged plant species (No. 4).         4         2           This is the second largest pond in the chain at a surface area of 10,910m <sup>2</sup> . The pond is approximately 4 m at its deepest ponit, although is more generally 1 to 2m in depth with a silt substrate. The eastern and western banks are moderately shaded by bankside trees with emergent macrophytes in the shallower margins (10% cover). The southern and northern banks are redureat	Number of submerged and emergent plant speciesNumber of submerged and emergent plant speciesTrophic ranking score for aquatic and emergent plant speciesSituated at the top of the Hampstead Chain this is the third largest pond at a surface area of 8,646m². The depth of the pond is approximately 1.5 to 2m with sit and sand substrate throughout. The margins of the lake are dominated by bankide trees (25% shade) with pathes of emergent the highest number of submerged plant species (No. 4) as well as floating leaved plants.1448.56This is the smallest pond in the chain at a surface area of 3,329m² and is located within a steep sided valley setting. The depth is approximately 1 to 1.5m throughout and the substrate dominated by sith which has accumulated to depth of over 1m in places. The pond margin is characterised by the persence of trees (10 shade) and emergent plants (19% cover). The pond also supports an abundance of submerged plant species composed of three species.1138.83This is the second smallest pond in the chain at a surface area of 10,190m². The pond is generally between 2m and 3m deep with a silt substrate throughout. The pond supproxise the fewest number of emergent and submerged plant species (No. 4).1329.17This is the second argest pond in the chain at a surface area of 10,910m². The pond is generally between 2m and 3m deep with a silt substrate throughout. This pond supproxise the fewest number of emergent and submerged plant species (No. 4).1328.64This is the second argest pond in the chain at a surface area of 10,910m². The pond is approximately the marge of aquate plants (19% cove). The pond is approximately in the shalower margins (10% cove). 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The pond also supports a limited range of aquatic plants with only 1% emergent plant tower. The center of the pond is shaved there are are as of 10,910m². The pond is generally between 2m and 3m deep with a sit substrate throughout. The pond supports a limited range of averhanging trees and is handwire species (No. 4).429.173.67This is the second largest pond in the chain at a surface area of 10,910m². The pond is approximately that as a surface area of 10,910m². The pond is approximately that as a surface area of 10,910m². The pond is approximately that as a surface area of 10,910m². The pond is approximately that as a surface area of 10,910m². The pond is approximately that as a surface area of 10,910m². 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		Number of submerged and emergent plant species	Number of uncommon plant species	Trophic ranking score for aquatic and emergent plants	Average score per taxon	Number of dragonfly ( <i>Odonta</i> ) and alderfly ( <i>Megaloptera</i> ) families	Number of beetle ( <i>Coleoptera</i> ) families	Biotic Integrity Score	assessment
Stock Pond	This is the second smallest pond in the chain at a surface area of 4,401 m <sup>2</sup> . The pond is generally <1m deep with silt substrate throughout. The southern area of the pond is particularly shallow with high cover of detritus and coarse woody debris, a reedbed extends into the pond in the northern section. The banks are heavily shaded by bank side trees (20% shade) and therefore emergent macrophyte growth was limited (10% cover). Some scrub clearance along the banks has encouraged emergent plant species growth. This is the only pond across both chains that does not support any uncommon aquatic macrophyte species.	9	0	8.72	4.24	2	0	44	Poor
Kenwood Ladies' Bathing Pond	This relatively small pond has a surface area of 6,926 m <sup>2</sup> . It is generally >2m deep, and up to 4m at its deepest. The substrate is dominated by silt which has accumulated to depth of over 0.5m in places. The margins of the pond are dominated with bankside trees (15% shade) although there are patches of emergent vegetation (10% cover) located along the eastern side of the pond.	8	1	8.28	4.41	2	2	56	Moderate
Bird Sanctuary Pond	This pond has a surface area of 7,694m <sup>2</sup> with a depth of generally 1 to 2m. It has a silt and sand substrate throughout. In places the silt accumulations are over 1m deep. The banks are dominated by emergent macrophytes (10% cover) including a reedbed in the south-west arm. Elsewhere, the pond margins are dominated by bankside trees (20% shade).	9	1	7.83	5.00	1	0	33	Poor
Model Boating Pond	This is the second largest pond in the chain at a surface area of 16,280m <sup>2</sup> . The pond is generally over 2m in depth and there appears to be a silt substrate throughout. The banks are entirely re-enforced and there is very little bankside vegetation. Planted gabions have been installed along some of the banks and as small islands.	14	1	8.44	4.00	0	0	33	Poor
Highgate Men's Bathing Pond	This is the largest pond in the chain at a surface area of $18,250m^2$ . The pond is generally deep (typically >2.5m) with soft substrate. The majority of the pond is surrounded by bankside trees (20% shade) which in places limit the extent of emergent plant growth (5% cover). Re-enforced (sheet piled) banks are present along the toe of the current dams.	8	3	8.40	4.68	1	0	50	Moderate
Highgate No.1 Pond	At 13,660m <sup>2</sup> in area Highgate No.1 Pond is located at the southern extent of the Highgate Chain. The pond is generally shallow (typically <2m deep) with soft silt substrate and abundant submerged macrophytes. Vegetation cover on the banks varied with some areas characterised by trees and bushes, and others by grassy banks, some emergent macrophytes were present in the pond margin. This pond supports the greatest number of submerged and emergent species in the chain (No. 16).	16	3	8.98	3.89	2	0	56	Moderate