

Denbigh Quarry – GCN HSI Calculations

Pond 1

Habitat Suitability Index	Factor	Value	Rating for Index
HS1	Geographic Location	0.50	<i>Below Average</i>
HS3	Drying out frequency	0.90	<i>Excellent</i>
HS4	Water Quality	0.33	<i>Poor</i>
HS5	Shade	1.00	<i>Excellent</i>
HS6	Fowl	0.67	<i>Average</i>
HS7	Fish	0.67	<i>Average</i>
HS8	Pond Count	0.90	<i>Excellent</i>
HS9	Terrestrial habitat	0.33	<i>Poor</i>
HS10	Macrophytes	0.30	<i>Poor</i>
Overall HSI Value		0.57	Below Average

Pond 2

Habitat Suitability Index	Factor	Value	Rating for Index
HS1	Geographic Location	0.50	<i>Below Average</i>
HS2	Pond Area	0.40	<i>Poor</i>
HS3	Drying out frequency	1.00	<i>Excellent</i>
HS4	Water Quality	0.33	<i>Poor</i>
HS5	Shade	1.00	<i>Excellent</i>
HS6	Fowl	1.00	<i>Excellent</i>
HS7	Fish	1.00	<i>Excellent</i>
HS8	Pond Count	0.70	<i>Good</i>
HS9	Terrestrial habitat	0.33	<i>Poor</i>
HS10	Macrophytes	0.30	<i>Poor</i>
Overall HSI Value		0.58	Below Average

Pond 3

Habitat Suitability Index	Factor	Value	Rating for Index
HS1	Geographic Location	0.50	<i>Below Average</i>
HS2	Pond Area	0.90	<i>Excellent</i>
HS3	Drying out frequency	1.00	<i>Excellent</i>
HS4	Water Quality	0.67	<i>Average</i>
HS5	Shade	1.00	<i>Excellent</i>
HS6	Fowl	0.67	<i>Average</i>
HS7	Fish	1.00	<i>Excellent</i>
HS8	Pond Count	0.65	<i>Average</i>
HS9	Terrestrial habitat	0.33	<i>Poor</i>
HS10	Macrophytes	1.00	<i>Excellent</i>
Overall HSI Value		0.73	Good

Pond 4

Habitat Suitability Index	Factor	Value	Rating for Index
HS1	Geographic Location	0.50	<i>Below Average</i>
HS2	Pond Area	0.90	<i>Excellent</i>
HS3	Drying out frequency	1.00	<i>Excellent</i>
HS4	Water Quality	0.67	<i>Average</i>
HS5	Shade	1.00	<i>Excellent</i>
HS6	Fowl	0.67	<i>Average</i>
HS7	Fish	1.00	<i>Excellent</i>
HS8	Pond Count	0.65	<i>Average</i>
HS9	Terrestrial habitat	0.33	<i>Poor</i>
HS10	Macrophytes	0.60	<i>Average</i>
Overall HSI Value		0.69	Average

Pond 5

Habitat Suitability Index	Factor	Value	Rating for Index
HS1	Geographic Location	0.50	<i>Below Average</i>
HS2	Pond Area	0.70	<i>Good</i>
HS3	Drying out frequency	0.10	<i>Poor</i>
HS4	Water Quality	0.33	<i>Poor</i>
HS5	Shade	1.00	<i>Excellent</i>
HS6	Fowl	1.00	<i>Excellent</i>
HS7	Fish	1.00	<i>Excellent</i>
HS8	Pond Count	0.70	<i>Good</i>
HS9	Terrestrial habitat	0.33	<i>Poor</i>
HS10	Macrophytes	0.50	<i>Below Average</i>
Overall HSI Value		0.52	Below Average