

Appendix 12-14 Enhancement Potential for areas of government land identified as potentially suitable as wetland mitigation

Area	Size (ha)	Current land-use	Future Access	Configuration	Adjacent land-use	Future Potential Disturbance issues	Estimated Effective area	Fisheries Impacts if used for Ecological Mitigation?	Connectivity with existing wetland habitats	Enhancement potential
EA	12.78	Reedmarsh, grassland, grassland - shrubland	Via LMC Loop	Linear and wide	Proposed development to the north, LMC meander and fishponds beyond that on all other sides	Within the disturbance impact shadow of the proposed LMC Loop development	Very high, although somewhat reduced due to linear nature of site (approx. effective area: 90% i.e. c.11 ha).	No	Very high	Very high. Could provide suitable mitigation for loss of reed marsh.
1.	3.53	Fishpond (2.46 ha) Seasonally Wet Grassland (1.07 ha)	Access via DSD Access Rd along Shenzhen River.	Linear, moderately wide (>100 m).	Bordered by DSD Access Rd to NW, otherwise by commercial fishponds.	Largely undisturbed, although fisheries activities in ponds to the south may cause occasional disturbance. Construction of new FCA Boundary fence (on-going) will have an enclosing effect on the narrower ponds.	High, although somewhat reduced due to linear nature of site (approx. effective area: 80% i.e. c.2.8 ha).	Yes, c. 75% of site currently active fishponds.	Currently very high, some future reduction due to construction of new FCA Boundary fence.	High. Could provide suitable mitigation for large waterbirds.
2.	7.96	Fishpond (6.99 ha) Marsh (0.97 ha)	Access via DSD Access Rd along Shenzhen River.	Triangular in shape, although mostly rather wide (up to c. 200 m), tapers to narrow point at southern end.	Bordered by DSD Access Rd to N, otherwise surrounded by existing wetland habitats including commercial fishponds.	Little in the way of human disturbance from adjacent habitats; however, area lies partly within the disturbance impact shadow of the proposed LMC Loop development.	Very high due to size and shape (approx. 90% i.e. c.6.9 ha).	Yes, c. 85% of site currently active fishponds.	Very high.	High. Could provide suitable mitigation for large waterbirds (especially in those areas outside of the disturbance zone). Areas of inactive fishpond could be converted to marsh to attract smaller birds, herpetofauna and dragonflies.
3.	5.40	Fishpond (5.40 ha).	Access potentially problematic as it would be through Private Land.	Highly irregular, very narrow (<50 m) or narrow (50-100 m) in sections.	Mostly surrounded by commercial fishponds.	Potential for high levels of human disturbance due to adjacent fisheries activities, especially the need for access through the site to private fish pond area. Further, within the disturbance impact shadow of proposed LMC Loop development.	Very low due to a combination of irregular shape, narrowness of site, need to provide access, and need to accommodate re-provisioned fish pond bunds (approx. <50% i.e. < c. 2.7 ha).	Yes, site entirely active fish ponds. Also a significant disparity between government land and current fishpond configuration which would necessitate extensive re-provisioning of fishpond bunds	Very high.	Moderate. Potential inhibited by a combination of shape, access issues and disturbance from the LMC Loop.
4.	3.10	Abandoned fishpond (3.10 ha)	Access through the Frontier Closed Area.	Rectangular, approx.	Proposed XX access road along NE side, FCA Border Rd. along SE side, wetland habitats to SW and NW	Potential for disturbance from adjacent fisheries activities, some disturbance from FCA Border Road.	High, (approx. 90% i.e. c.2.8 ha).	Yes, site entirely active fish ponds.	High	High. Could provide suitable mitigation for large waterbirds.
5.	3.04	Active Fishpond.	Access would be through Private Land.	Broadly linear, rather irregular, very narrow (<50 m) in sections, maximum width c. 100 m.	Bordered by LMC Meander to NW, otherwise by commercial fishponds.	Potential for high levels of human disturbance due to adjacent fisheries activities. Further, just within the disturbance impact shadow of the proposed LMC Loop development.	Very low due to a combination of irregular shape, narrowness of site, and need to accommodate re-provisioned fish pond bunds (approx. <50% i.e. < c. 2 ha).	Yes, site entirely active fish ponds. Also significant disparity between government land and current fishpond configuration which would necessitate extensive re-provisioning of fishpond bunds.	Very high.	Moderate. Potential inhibited by a combination of shape, access issues and disturbance from the LMC Loop.
6.	5.74	Fishpond (5.02 ha) Wasteground (0.72 ha) Village (0.21 ha) Road (0.34 ha)	Access via Ha Wan Tsuen Road.	Fairly regular, width c. 200 m.	Entirely surrounded by roads, village land.	Entirely surrounded by sources of disturbance (mainly roads), partly below the viaduct for the LMC Spurline, and will be affected by the proposed road link connecting the Loop and the LMC Station PTI	Moderate (approx. 70% i.e. c.4.4 ha) although some of this under LMC Spurline viaduct.	Yes, includes active fishponds.	Very low.	Low to moderate. Current low value could be enhanced through the creation of new wetland areas and combining smaller ponds into one large water body. Would be suitable for creation of a large reed fringed pond targeting reedbed species.

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7.	3.45	Fishpond (3.45 ha).	Access through the Frontier Closed Area.	Broadly linear, very narrow (<50 m).	Adjacent to FCA Road along entire western side, otherwise bordered by existing wetland habitats including the LMC Spurline Wetland Mitigation Area).	Mainly from vehicles along the FCA Road, and although mature trees act as screen, these have an enclosing. Otherwise adjacent to the LMC Spurline mitigation area where access is generally controlled.	High due to size and shape (approx. 90% i.e. c. 3.1 ha).	No.	Very high.	Moderate. Could provide suitable habitat for small birds.
8.	35.14	Wetland Mitigation (35.14 ha)	Access through the Frontier Closed Area.	Large, broadly rectangular.	LMC Station at northern end, otherwise surrounded by wetland habitats.	Access tightly controlled, very little disturbance.	Very high due to size and shape (100%).	No.	Very high.	Low. Current value very high following implementation of extensive and intensive ecological enhancement measures as mitigation for the impacts of the LMC Spurline.
9.	7.00	Fishpond (7.00 ha).	Access through the Frontier Closed Area.	Broadly linear, rather irregular, narrow (<100 m) in sections, maximum width c. 150-200 m.	Adjacent to FCA Road along entire western side, otherwise bordered by existing wetland habitats including the LMC Spurline Wetland Mitigation Area).	Mainly from vehicles along the FCA Road, and although mature trees act as screen, these have an enclosing effect. Otherwise adjacent to the LMC Spurline mitigation area where access is generally controlled.	Very high due to size and shape (approx. 90% i.e. c. 6.3 ha).	Some active fishponds although much of the site is currently inactive fishponds.	Very high.	High. The area includes one former fishpond which is no-longer wetland habitat = wetland creation rather than enhancement) and is adjacent to areas actively managed for large waterbirds.