













## The importance of wetlands

- Throughout the world, wetlands are an integral part of a healthy environment and are relied upon by millions for sustaining life, livelihood, and culture (de Groot et al., 2006; Russi, et al., 2013; Barbier, 2013)
- Coastal and inland wetlands are important habitat for migratory birds who rely on networks of strategically located sites across their migration flyway. (Yang, Ma, Thompson, & Flower, 2017)

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Flora List of plants in encountered in Valenzuela North Rail Depot.										
Common Name	Scientific Name	Habit	Conservation Status							
Abelmoscus esculentus	okra	herb	Least Concern							
Albiza saman	rain tree / akasya	tree	Least Concern							
Alstonia sp.	octopus plant	tree	Least Concern							
Alternanthera sessilis	bonga-bonga	herb	Least Concern							
Amaranthus viridis	kulitis	herb	Least Concern							
Axonopus compressus	carabao grass	herb	Least Concern							
Azadirachta indica	neem	tree	Least Concern							
Borreria ocymoides	siksik-parang	herb	Least Concern							

![](_page_15_Picture_3.jpeg)

Common Name	Scientific Name	Habit	Conservation Statu:	Common Name	Scientific Name	Habit	Conservation Status	
Calopogonium	balatong aso	vine	Least Concern	Delonix regia	fire tree	tree	Least Concern	
mucunoides				Desmodium giganteum	mangkit	herb	Least Concern	
Carica papaya	papaya	herb	Least Concern	Desmodium triflorum	pakpak langaw	herb	Least Concern	
Centrosema pubescence	pukingan	vine	Least Concern	Echinocloa colona	bulang	herb	Least Concern	
Cleome rutidosperma	apoy-apoyan	herb	Least Concern	Eclinta alba	higis manok	herb	Least Concern	
Coccinea grandis	tamling	vine	Invasive alien	Fiabhornia avarsinas	Watar Hunginth	harb	Invasiva alion	
			species	Electror mu crussipes	water Hyaciliti	nero	species	
Cocos nucifera	coconut	tree-like	Least Concern	Elenhantonus tomentosus	dilang baka	herb	Least Concern	Vater Spinach
		/ palm		Laspinenopile tomenoone	uning cum			Aaron Lecciones (2016)
Colocassia esculenta	gabi	herb	Least Concern	Eragrostis tenella	Japanese love	herb	Least Concern	
Commelina bengalensis	ulikbagon	herb	Least Concern		grass			
				Euphorbia heterophylla	Poinsettia	shrub	Least Concern	
Commelina diffusa	tari-tari	herb	Least Concern	Euphorbia hirta	Tawa-tawa	herb	Least Concern	
Cynodon dactylon	bermuda grass	herb	Least Concern					
Cyperus compressus	Gisai-kalabaw	herb	Least Concern	Ficus benjamina	Benjamin Fig	shrub	Least Concern	
	1000000 00	0. 525	11 255	Ficus septica	Hauili	tree	Least Concern	
Cyperus imbricatus	Balabalatungan	herb	Least Concern	Fimhristolis miliacaa	Gumi	herh	Least Concern	
Cyperus iria	Payung payong	herb	Least Concern	1 imorisiyiis milacea	Guin	nero	Least Concern	
Dactyloctenium	Crowfoot grass	herb	Least Concern	Hedyotis corymbosa	Starviolet	herb	Least Concern	
				Hevea braziliana	Rubber tree	tree	Least Concern	

Flora							
Common Name	Scientific Name	Habit	Conservation Status	Common Name	Scientific Name	Habit	Conservation Status
Ipomoea batatas	Kamote	vine	Least Concern	Pistia stratiotes	Quiapo	herb	Least Concern
Ipomoea pes-tigridis	Malasandia	vine	Least Concern	Psidium guajava	Guava	tree	Least Concern
Ipomoea trilobata	Kamote	vine	Least Concern	Pterocarpus indica	Narra	tree	Critically
Kyllingia monocephala	Mutha	herb	Least Concern				Endangered
Lemna minor	Duckweed	herb	Least Concern	Saccharum spontoneum	Talahib	herb	Least Concern
Leucaena leucocephala	Ipil-ipil	tree	Least Concern	Sida rhombifolia	Eskobang haba	herb	Least Concern
Ludwigia octovalvis	Balakbak	herb	Least Concern	Swietenia macrophvlla	Mahogany	tree	Invasive alien
Manihot esculenta	Cassava	shrub	Least Concern	1.2			species
Mimosa invisa	Makahiya	herb	Least Concern	Synedrella nodiflora	Cinderella weed	herb	Least Concern
Mimosa pudica	Makahiya	herb	Least Concern	Tagetes erecta	Marigold	herb	Least Concern
Moringa oleifera	Malunggay	shrub	Least Concern	Talinum triangulare	Ginseng	herb	Least Concern
Muntigia calabura	Aratiles	shrub	Least Concern	Tampinglin adapt	Talian		Land Comm
Musa sapientum	Saging / Banana	herb	Least Concern	Terminana carappa	Tansay	uee	Least Concern
Panicum maximun	Guinea grass	herb	Least Concern	Tridax procumbens	White daisy	herb	Least Concern
Paspalidium flavidum	Lisang kalabaw	herb	Least Concern	Vernonia cinerea	Agas moro	herb	Least Concern
Paspalum conjugatum	Carabao grass	herb	Least Concern	Vitex negundo	Lagundi	tree	Least Concern
Phyllanthus amarus	Sampasampalukan	herb	Least Concern	Zea mays	Corn	herb	Least Concern
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## Evaluating RAWES for use in wetland offsetting

- 1. Can the method measure ecological condition? RAWES Field Assessment Sheet (36 Assessment Categories; Quantitative, Qualitative)
- Is the method truly rapid?
  Requires only a pair to conduct field assessment in less than half a day
- 3. Does the method require a site visit? Assessments on the field are necessary.
- 4. Can the results be validated? Replication of process through standardization.

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## Conclusions

- The RAWES is a useful tool to reduce the resource costs of initial requirements for ecological characterization that can allow the greater adoption of compensation mechanisms such as wetland offsetting
- The means to fill in data gaps (ie National Wetland Inventory) is available since the resources to conduct new ecological assessments of wetlands would not be that prohibitive using the RAWES Approach.

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Bull, J. W., Evans, M. C., von Has

sen, J. R., & Flower, R. J. (1

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## THANK YOU FOR LISTENING Acknowledgements References

▷ Japan International Cooperation Agency which funded the North South Commuter Rail (NSCR) Project of the Department of **Transportation and Communications** (DOTC)

Consultants and staff that worked on the project from:

- 0 the Society for the Conservation of Philippines Wetlands, Inc. (SCPW),
- Ο the Department of Environment and Natural Resources (DENR) and
- O the Japan International Cooperation Agency (JICA).

Parts of this presentation come from material submitted for peerreview, entitled: "Rapid Assessment of Wetland Ecosystem Services (RAWES) in wetland offsetting for urban developments: An example from Valenzuela City, Philippines"