RECOVERY TEAM ANNUAL REPORT THREATENED SPECIES AND/OR COMMUNITIES RECOVERY TEAM				
Recovery Team		THROMBOLITE (STROMATOLITE-LIKE MICROBIOLITE) COMMUNITY OF A COASTAL BRACKISH LAKE (LAKE CLIFTON) RECOVERY TEAM		
Reporting Period		Calendar year 2009		
		Current memb	pership	
Member		r	Representing	
Chair	David Mitchell		Nature Program Leader, DEC Swan Region	
Exec Officer	Jill Pryde		DEC Species & Communities Branch	
	Jim Lane		DEC Science Division	
	Stephen Dutton		Ranger, Yalgorup National Park	
	Dr Brenton Knott		University of Western Australia	
	Fiona O'Connor		Coordinator, Lake Clifton Landcare Group	
	Adam Harbeck/Natalie Lees proxy for Jane O'Malley		City of Mandurah	
Amanda Willmott no Bonner		w replaced by Elizabeth	Ramsar Initiative Coordinator, Peel-Harvey Catchment Council	
	Anthony Barr		CSIRO (corresponding member)	
	Dr Matt Forbes		DEC Hydrologist	
Invited guest	Jennifer Alexander (nee Paton) PhD Univ		PhD candidate (supervised by Prof Jacob John), Curtin University	
Dates meetings were held		No formal meetings were held. A field day was held on 1 April 2009.		
One to two par of achievemen <i>WATSNU</i>	ragraph summary ts suitable for	 Summary The Minister for the Em Clifton threatened ecc Environment Protection purpose of listing this ecc support to on-ground ef community as endange likely to have a significa to the Department for a landholders and the cor Country' package. Thar thanks to those in the Pe A field day was held in providing a forum to er some members have no provided an undate on 	vironment, Water, Heritage and the Arts, has listed the Lake ological community as critically endangered under the and Biodiversity Conservation Act 1999 (EPBC Act). The ological community is to help prevent its decline and to provide forts that ensure its long-term survival. Listing this ecological red under the EPBC Act means that any new activity that is nt impact on the ecological community will need to be referred assessment and approval. Funding will now be available to mmunity through the Australian Government's 'Caring for our ists to everyone involved with this nomination and a special cel Harvey Catchment Council.	

	related water sampling activities. Sites visited included locations of the data loggers and a rain gauge and hydrological sampling sites (by Matt Forbes); tuart revegetation trial sites set up by Katinka Ruthrof of the Tuart Health Research Group (Murdoch University). Katinka is currently looking at the hydrological links of tuart health and health of Lake Clifton. Steve Dutton provided detailed historical information in relation to the lime kilns and location of where limestone was extracted in the past from the lake bed. The group was also briefed on a new project to gather information for the coastal strip (west of Old Coast Road) between Dawesville and Binningup with the aim of the EPA developing a position on land use in the area. Fiona O'Conner provided a rundown on activities by the Lake Clifton Friends Group that included weeding and revegetation.	
List of actions undertaken by Recovery Team	 Hydrological monitoring Matt Forbes continues to download data from the rain gauge that was installed within private property on the east side of Lake Clifton and from data loggers installed at the boardwalk to measure EC, water level, temp and pH. He also periodically checks Loggers installed in a shallow bore on lake edge. Jim Lane continues to monitor the water level, salinity, pH and nutrient status at Lake Clifton each year. Peel-Harvey Catchment Council has compiled an application "Protecting the Critically Endangered Community at Lake Clifton" to submit under the Caring for Country investment proposal for 2010-2011 that aims to establish baseline information about the thrombolite community, water quality and buffer vegetation around Lake Clifton. If the proposal is funded access to the lake and rehabilitation works will be the on-ground works targeted, and an awareness raising program to encourage local residents to reduce nutrient input and groundwater extraction activities. 	
Assessment of progress towards meeting criteria for success (from Recovery Plan)	Until the monitoring strategy has been in place for a specific time, it will be difficult to assess recovery against criteria for success for the TEC.	
Assessment against criteria for failure (from Recovery Plan)	The current Interim Recovery Plan (IRP) covers the period 2004-2009 and states that the criteria for failure are significant and sustained detrimental changes to water quality or water levels in Lake Clifton, significant decline in area of living thrombolites, major shift in composition of the microbial community. It cannot currently be determined conclusively if any of the thrombolites are alive.	

Publications published in relation to Lake Clifton John, J, Hay. M, Paton, J. (2009). Cyanobacteria in benthic microbial communities in coastal salt lakes in Western Australia. In Algological Studies, 130 Stutttgart.