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Determining spatio-temporal variations of ecological water consumption by natural oases for sustainable water resources allocation in a hyper-arid endorheic basin

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Determining spatio-temporal variations of ecological water 1 consumption by natural oases for sustainable water resources 2 allocation in a hyper-arid endorheic basin 3 4 5 Revised manuscript submitted to Journal of Cleaner Production (JCLEPRO-D-17-07805) 6 Guangyao Gao a,b, Qin Shen c, Yan Zhang d, Naiqing Pan a, Ying Ma e, Xiaohui Jiang f, Bojie 7 Fu a,b,\* 8 9 <sup>a</sup> State Key Laboratory of Urban and Regional Ecology, Research Center for Eco-10 11 Environmental Sciences, Chinese Academy of Sciences, Beijing 100085, China 12 <sup>b</sup> Joint Center for Global Change Studies, Beijing 100875, China 13 <sup>c</sup> State Forestry Administration Key Laboratory of Forest Resources & Environmental 14 Management, Beijing Forestry University, Beijing 100083, China <sup>d</sup> College of Geomatics, Xi'an University of Science and Technology, Xi'an 710054, China 15 16 e Key Laboratory of Water Cycle and Related Land Surface Processes, Institute of 17 Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, 18 Beijing 100101, China 19 <sup>f</sup> College of Urban and Environmental Sciences, Northwest University, Xi'an 710027, China 20 \* Corresponding author. 21

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