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Berhanu T Kidane* (berhanu.kidane@ung.edu), University of North Georgia, 1201 Bishop Farms Pkwy., Watkinsville, GA 30677. *The Corona Problem for the Weight Dirichlet Space of Weight 1/2*. Preliminary report.

We prove a corona theorem for infinitely many functions from the multiplier algebras on weighted Dirichlet spaces of weight $1/2$ (or 0.5) on the unit disk. In addition, explicit estimate on solution is given. The estimate is given on the harmonic weighted Dirichlet space, which is an extension of our multipliers of the weighted Dirichlet space. (Received August 13, 2017)