Student Name Christa Torrens	Student ID_*******
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Thesis Title:	
BIOGEOCHEMICAL DYNAMICS AND RESPONSE TO PERMAFROST DEGRADATION IN MCMURDO DRY VALLEY STREAMS, ANTARCTICA	
Have you performed research involving human subject	ets which requires approval from the
Institutional Review Board (IRB)? Yes _X_ No	
IRB Protocol Number	
Have you used live animals, animal tissue, or observa	tional animal work which requires approval
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Committee Chair Name Michael Gooseff	
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Committee Member Name Diane McKnight	
Signature Diane McKnight	Date Signed 11/15/2022

The final copy of this thesis has been examined by the signatories, and we find that both the content and the form meet acceptable presentation standards of scholarly work in the above-mentioned discipline.