

## PERMIT:

### In terms of Section of the National Heritage Resources Act (Act 25 of 1999)

Permit Holder: Dr Jonah Nathaniel Choiniere  
Evolutionary Studies Institute  
University of the Witwatersrand  
Private Bag 3  
WITS 2050  
Johannesburg, South Africa

**Object:** BP/1/4934, BP/1/5347A

### **For temporary export of the following 2 objects: BPI/1/4934 *Massospondylus* skull; BPI/1/5347A cluster of 6 eggs of *Massospondylus***

This permit refers to cranial material of *Massospondylus* from the farm Borsmansdrift 133 and a clutch of six (6) eggs of *Massospondylus* from the Golden Gate Highlands National Park, both from the Lower Triassic of the Elliot Formation. The egg cluster is in a single slab and shows 2 exposed embryos. The skull belongs to a partial skeleton. The material is considered useful for synchrotron scanning due to the embryos' small sizes and poor density difference between the skull bones and the surrounding sediment. It is the only non-invasive method available to detect the detailed amount of information needed to study their ossification patterns.

**The permit is issued to Dr Jonah N. Choiniere, Senior Researcher at the Evolutionary Studies Institute, University of the Witwatersrand of the University of the Witwatersrand, in collaboration with Ms Kim Chapelle, MSc student at the Evolutionary Studies Institute, University of the Witwatersrand, Dr Vincent Fernandez, Postdoctoral Fellow at the European Synchrotron Radiation Facility, and Paul Tafforeau, Beamline Responsible at the European Synchrotron Radiation Facility, to export two objects for scanning of embryonic and adult skull elements of *Massospondylus* specimens at the European Synchrotron Radiation facility in Grenoble, France.**

#### Conditions:

1. Only the selected representative of the material stored in the collection may be exported.
2. The material must be carefully packed and all packaging must be clearly marked with the name of the site (if known), and the name and address of the permit holder or the BPI.
3. The material must be hand-carried by Dr J. N. Choiniere or Ms K. Chapelle.
4. Dr Jonah N. Choiniere (BPI, University of the Witwatersrand) is responsible for the analysis of the material and its transport to and from the above mentioned institutions/collections.



5. Dr Jonah N. Choiniere is responsible for the cost of the return of the specimens.
6. The samples must be kept for study purposes only, and may not be sold or exchanged.
7. The material may not be loaned to any person or institution other than the above stated participants in the study, without the consent of SAHRA.
8. No destructive analysis or sampling may be undertaken.
9. A report on the activities undertaken in terms of this permit must be lodged with SAHRA before 31 May 2016.
10. Copies of any papers that may result from the export of the material must be lodged with SAHRA.
11. SAHRA shall not be liable for any losses, damages or injuries to persons or properties as a result of any activities in connection with this permit.
12. SAHRA reserves the right to cancel this permit by notice to the permit holder.
13. The material must be returned by the date the permit expires.

This permit is valid from **19/05/2015 to 30/06/2015**.

Ragna Redelstorff  
Heritage Officer  
South African Heritage Resources Agency

Colette Scheermeyer  
SAHRA Head Archaeologist  
South African Heritage Resources Agency

Additional Info:



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CaseID: 7657

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an agency of the  
Department of Arts and Culture

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Please note that this permit may be suspended should an appeal against the decisions be received by SAHRA within 14 days from the date of the permit. SAHRA may not be held responsible for any costs or losses incurred in the event of the suspension or retraction of this permit.



The South African Heritage Resources Agency

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