# Description of Supplimentary Data

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| **Field** | **Description** |
| sample | Sample name |
| eruption | The name of the eruption/eruptive period |
| gps\_nsgps\_ew | The GPS coordinates of the location where the sample was collected from, in latitude/longitude, using WGS84 |
| location | Named location, as shown in Fig. 1 |
| unit | The unit of the Rabaul Pyroclastics the sample was taken from |
| normalised\_height | The height of samples of the Rabaul Pyroclastics above the base of the deposits, normalized to the maximum thickness of each unit, as plotted in Fig. 2 |
| eruption\_date | The date each sample of the 2013-2014 eruptives were erupted, where known |
| type | The type of sample |
| comments | Any additional comments about the sample location or description |
| analysed\_by | The lab that ran the analysis |
| SiO2Al2O3etc. | Major elements in weight %, un-normalized |
| sum | The sum of the major elements |
| loi | Loss on ignition, where measured |
| sum\_loi | Sum of the major elements and LOI |
| SFetc. | Trace elements in ppm |

NA = Not applicable/not analyzed

<DL = Below detection limit