# Appendix A Metadata

# Project and Sample Metadata

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| --- | --- | --- |
| Geologist Name |  | M.W. McCurdy |
| Province/Territory |  | Yukon Territory |
| Project Name | or the activity within a larger project | Porphyry-related mineral systems; Mineral markers of porphyry processes P-3.3 Mineralogical controls on the fertility of porphyry-style systems |
| Funding Source | e.g. GEM-2, TGI-5 | TGI-5 |
| Datum for sample location coordinates | e.g. NAD83 | NAD83 |
| Context of current work as it relates to earlier or ongoing work | e.g. i) are these samples part of a larger dataset that was already collected? or  ii) are these samples part of a data set that will grow as more samples are collected? or  iii) are these reanalyses? or  iv) other?  List references to earlier publications | Samples were part of a suite of sample media (silt, water, HMC, pebble) collected in 2017. |
| Supporting publications | if background work is published elsewhere, identify the source in current publication (\*note: full reference is not necessary, as long as it clearly identifies the publication e.g.:  OF 7701  OF 8358 p. 39-47  JGE v. 190, p. 69-86 | GSC OF 8549 p. 333-344 |
| Sampling access method | e.g. truck-based, helicopter etc. | Truck, ATV, helicopter |
| Sampling Design/Pattern | e.g. grid, lines, random, drainage, lake, road network, case study around deposit etc. | First- and second-order streams around deposit |
| Sample Medium/Media  Number of samples for each medium | e.g., 200 till, 5 esker, 3 beach sand | 22 stream sediment (<0.177 mm fraction) |
| Sample density | e.g. X samples /km2 | 1 sample / 45 km2 |
| Sample collection date range | Day/Month/Year to  Day/Month/Year | 06/09/2017 to 10/09/2017 |

# Sample Preparation Metadata

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Lab Name | Work Order# or Certificate Name (usually a number) | Screening – mesh size | Screening – Wentworth scale grain size | Methodology | Number of Samples Prepared | Published Reference(s) for the Preparation Techniques Used | Commercial Lab Preparation Package Code |
| lab used for sample preparation e.g. GSC Sed lab or external lab; include city and country | as assigned by the preparation lab, if it exists | e.g. -250 mesh | e.g. <0.063 mm | describe sample preparation methodology in as much detail as possible | state the number of samples prepared (can be different from the number collected) | e.g. Girard et al. 2004  Percival and Lindsay, 1997 | e.g. Sieving SS80 |
| GSC Sedimentology Lab | 15818 | -80 mesh | <177 µm | Air-dry <40⁰C, sieve | 26 | Girard et al, 2004 |  |
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# Geochemical Analysis Metadata

## Part 1 of 2

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Lab Name | Work Order# or Certificate Name (usually a number) | Date Samples Submitted to Lab | Date Sample Data Reported to GSC | Size Fraction Analysed | Analytical Digestion (if applicable): list each digestion on a separate line | Analytical Method / Aliquot Mass | Name and Abbreviation of Laboratory’s Analytical Package |
| Name of lab; city; country | as assigned by the analytical lab | day/month/yr | day/month/yr | e.g. < 0.063 mm | be specific about ratio and types of acids  e.g. modified Aqua regia 1:1:1 HCl:HNO3:water | e.g. ICP-ES/0.5 g  e.g. INAA/30g | e.g. FA300 – Fire Assay  AQ250 – aqua regia  LF200 – borate fusion |
| Maxxam, Mississauga, ON | B813750 | 19/01/2018 | 05/02/2018 | <177 µm |  | INAA/30g | BQ-NAA-1 |
| Bureau Veritas, Vancouver, BC | VAN17003017.1 | 12/12/2017 | 01/02/2018 | <177 µm |  | FA/30g | FA330 – Fire Assay |
| Bureau Veritas, Vancouver, BC | VAN17003017.1 | 12/12/2017 | 01/02/2018 | <177 µm |  | LECO/0.1g | TC003 - LECO |
| Bureau Veritas, Vancouver, BC | VAN17003017.1 | 12/12/2017 | 01/02/2018 | <177 µm | modified Aqua regia 1:1:1 HCl:HNO3:water | ICP-MS/0.5g | AQ250\_EXT\_REE |
| Bureau Veritas, Vancouver, BC | VAN17003017.1 | 12/12/2017 | 01/02/2018 | <177 µm |  | LOI/0.1g | TG001 |

## Part 2 of 2

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| Upper and Lower Detection Limits (for each element) | PDF of Price Brochure | Deviations from Methods Described in Lab Brochure | List Different Types of QA/QC Samples Inserted |
| provide separate Excel table and indicate file name and/or location in report  e.g. Appendix4.xls , Table 2 in body of report  e.g. AppendixB1\_Detection\_Limits.xlsx | provide (a) a PDF of commercial lab brochure and (b) PDFs of appropriate pages from lab website, where available that describe analytical methods and detection limits. Indicate file name and location in report e.g. AppendixA2.xls | e.g. different sample mass, addition of extra elements analyzed etc. | i) distinguish between QA/QC from: a) the scientist, b) GSC Sed Lab, and c) commercial analytical lab  ii) state the name of the standard e.g. TILL4, qtzJ29623 |
| INAA; Table 1 in body of report |  |  | a) STSD-1, STSD-4 |
| FA, LECO, ICP-MS, LOI; Table 2 in body of report | <http://acmelab.com/services/downloads/> |  | a) STSD-1, STSD-4  b)  c) STD GS311-1, STD GS910-4, STD DOLOMITE-3, STD CDN-PGMS-19, STD OREAS45EA, STD DS11 |