**Stage 2A Review**
**Data Quality Control (QC)**

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|---|---|
| Site: PHSS-SIB PDI | SDG #: Case 23F0627 |
| Laboratory: ARI | Date: 8/31/2023 |
| HydroGeoLogic, Inc. Reviewer: Deanna Valdebenito<br>Peer Reviewer: Ken Rapuano (9.18.23) | Project: DT2002 |

| Client Sample ID | Laboratory Sample ID | Analyses | Matrix |
|---|---|---|---|
| SIB-SED-MG-AAM169-NW-06172 | 23F0627-01 | Total Metals | Solid |

The following Stage 2A review was performed on the requested analyses. No results were rejected, and analytical completeness is 100%.

Narrative and Completeness Review – The case narrative and data package were checked for completeness. No completeness issues were noted.

*Qualification: None required.*

Sample Delivery and Condition – All samples arrived intact at the laboratory in acceptable condition and temperature and were properly preserved.

*Qualification: None required.*

Holding Times – Sample SIB-SED-MG-AAM169-NW-06172 was prepared and analyzed within the required holding time for ICP-MS metals; however, the mercury fraction of the sample was analyzed after 2x the 180-day holding time for frozen samples had expired. The detected mercury result for sample SIB-SED-MG-AAM169-NW-06172 should be qualified J-HTAX.

***Qualification: The mercury result for sample SIB-SED-MG-AAM169-NW-06172 is qualified J, with reason code HTAX.***

Method Blanks – All method blanks were free from contamination.

*Qualification: None required.*

Rinsate Blanks – No equipment blank is associated with the sample results reported in this SDG.

*Qualification: None required.*

Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) – All LCS/LCSD %Rs and RPDs were within QAPP control limits. A standard reference material was also reported for each PCB, metals, and mercury preparation batch; the SRM %Rs met the control limits.

*Qualification: None required.*

Surrogates – Surrogate analyses are not applicable to metals methods.

*Qualification: None required.*

Matrix Spike/Matrix Spike Duplicate (MS/MSD) – An MS/MSD was not performed on samples in this SDG.

*Qualification:* None required.

Field Duplicate – A field duplicate was not submitted with the samples in this SDG.

*Qualification:* None required.

Laboratory Duplicate – A laboratory duplicate was not performed for samples in this SDG.

*Qualification:* None required.

Compound Quantitation – Analyte results were reported with the associated DL, LOD, and LOQ in the DoD format instead of with the associated MDL and RL. Non-detected results were reported on the hardcopy as <#, where # corresponds to the LOD. The HGL reviewer confirmed that the value associated with non-detected results in the EDD is the MDL, in accordance with the project reporting requirements. Analytes detected between the MDL and RL were reported as J-qualified results by the laboratory. These J qualifiers were retained unless superseded by a more severe qualifier.

*Qualification: None required.*

Qualification Summary Table (concentrations in mg/kg):

| Sample | Analyte | Lab Value | Lab Qualifier | Validated Value | Validated Qualifier | Reason Code |
|---|---|---|---|---|---|---|
| SIB-SED-MG-AAM169-NW-06172 | Mercury | 0.00684 | J | 0.00684 | J | HTAX |