**Multiple Analysis**
Metals (SW-846 Method 6020A)
**Stage 2A Review**
**Data Quality Control (QC)**

| | |
|---|---|
| Site: PHSS-Swan Island Basin | SDG #: K2300274 |
| Laboratory: ALS Environmental | Project #: DT2002.03.03.03.01 |
| HydroGeoLogic, Inc. Validator: Joseph Vilain | Validation Date: 06.01.23 |
| HGL QC Reviewer: Ken Rapuano | Peer Review Date: 06.01.23 |

| Client Sample ID | Laboratory Sample ID | Matrix |
|---|---|---|
| SIB-SW-AAM131-CAR-ST-102122 | K2300274-001 | Storm Water |
| SIB-SW-AAQ005-CAR-ST-102122 | K2300274-002 | Storm Water |
| SIB-SW-AAM169-CAR-ST-102122 | K2300274-003 | Storm Water |
| SIB-SW-AAM107-CAR-ST-102122 | K2300274-004 | Storm Water |
| SIB-SW-AAP957-CAR-ST-102122 | K2300274-005 | Storm Water |

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 – All samples were prepared and analyzed within their required holding times.

*Qualification:* None required.

Method Blanks – The method blanks were free from contamination.

*Qualification:* None required.

Trip Blanks – A trip blank was not submitted with the samples in this SDG.

*Qualification:* None required.

Rinsate Blanks – Rinsate blanks were not submitted with the samples in this SDG.

*Qualification:* None required.

Ambient Blanks – An ambient blank was not submitted with this SDG.

*Qualification:* None required.

Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) – All LCS %Rs were within QAPP control limits.

*Qualification:* None required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) – MS analysis was performed on sample SIB-SW-AAM131-CAR-ST-102122 for arsenic, copper and zinc, and on sample SIB-SW-AAQ005-CAR-ST-102122 for chromium. All %Rs were within control limits.

*Qualification:* None required.

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

*Qualification:* None required.

Laboratory Duplicate – A laboratory replicate was performed on sample SIB-SW-AAM131-CAR-ST-102122 for arsenic, copper and zinc, and on sample SIB-SW-AAQ005-CAR-ST-102122 for chromium; all RPDs were within control limits.

*Qualification:* None required.

Compound Quantitation – Analyte non-detections were reported as ND with the associated MDL and MRL included on the result summary pages. This reporting format is equivalent to reporting non-detected data in the EPA “MDL U” format. Analytes detected between the MDL and MRL were reported as J-qualified results by the laboratory. These J qualifiers were retained unless superseded by a more severe qualifier.

*Qualification:* None required.