

## Memorandum

**From:** Robert Betz

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**To:** Files

**Project:** SRRTTF2

**CC:**

**SUBJECT:** SRRTTF Phase 2 Data Review/Validation

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The polychlorinated biphenyl (PCB) and conventional analyte laboratory results data were reviewed for quality assurance in accordance with the project quality assurance project plan (QAPP). All quality control (QC) results comply with QAPP data quality indicator criteria, with a few minor exceptions for PCB results.

### *PCB Data Review*

The data quality indicators evaluated for PCBs include the following:

- Analytical method
- Detection limits
- Daily calibration verification
- Method blank concentrations
- Sample and method blank surrogate recoveries
- Lab Control Sample Recoveries
- Matrix Spike Sample Recoveries (not specified in the QAPP)
- Duplicate sample RPDs
- Completeness

The PCB data files each include a summary of the quality assurance review results as noted in the working laboratory electronic data deliverable (EDD)-Excel files of the subfolders located on the LimnoTech network under File://S:\SRRTTF2\Laboratory Data\AXYS\AXYS Lab Reports.

All reviewed quality control (QC) results for PCBs comply with QAPP data quality indicators with the following exceptions:

- 29 surrogate recovery results were low for 8 samples
- 4 duplicate sample pairs had high relative percent differences (RPDs) for a total of 25 congener pair results - Note: 16 of the congener pair results for 2 of the duplicate pairs (see Replicate 9 & Replicate 10 pairs) had contamination in the associated blank sample – correction for the blank sample could change the RPD results

The out of control surrogate results are below the associated criteria range (25%-125%) for percent recovery specified in the QAPP. Sample results associated with the low surrogate recoveries are qualified as estimated using J/UJ data flags for positive/negative result values.

The RPDs for out of control duplicate pairs are above the QAPP-specified criteria (0-50% for congeners >10 times the detection limit). Duplicate pair results associated with the high RPDs are qualified as estimated using the J data flag.

There are no changes to PCB result values.

### ***Conventional Analyte Data Review***

The data quality indicators evaluated for conventional analytes (dissolved organic carbon (DOC), total organic carbon (TOC), total suspended solids (TSS), total dissolved solids (TDS)) include the following:

- Analytical method
- Detection limits
- Lab blank results
- Lab control sample recoveries
- Matrix spike sample recoveries
- Duplicate sample RPDs
- Completeness

All reviewed quality control (QC) results for conventional analytes comply with QAPP data quality indicator criteria.

