

## Appendix V: MPSL-MLML SOPs

<b>MPSL-MLML Procedures</b>			
Page	Procedure/Equipment	SOP Number	Revision Date
A	SWAMP SOP Chemistry Data Verification V1.1		March 2005
B	Validation of BOG Database (Modifications to RMP Data Validation)		

## **Appendix V A: SWAMP SOP Chemistry Data Verification v1.1**

This document is an official SWAMP SOP and can be found at:

[http://mpsl.mlml.calstate.edu/SWAMP\\_SOP\\_Chemistry\\_Data\\_Verification\\_v1.1.pdf](http://mpsl.mlml.calstate.edu/SWAMP_SOP_Chemistry_Data_Verification_v1.1.pdf)

## Appendix V B: Validation of BOG Database (Modifications to RMP Data Validation)

### Validation of Bog Database

Verified and validated using the SWAMP MQOs, following the SWAMP verification SOPs and SWAMP Classification SOP. Rejection points and blank contamination were based on SFEI documentation.

#### Accuracy

MS/MSD %R, LCS, CRM

Following SWAMP MQOs, one QC element is allowed to fail for accuracy in a batch and still be compliant. When more than one QC element fails, the analyte in each QC element is given a QACode (EUM, GBC, GB) and then all in batch for that analyte is classified as Est. In these cases, a "VIU" QACode was applied to the field samples.

**Rejection Point:** VRIU was applied to the field samples when %R was above 200 in the highest failed QC element SRM>MS/MSD>LCS and the compliance code was changed to Rej. In the case where there is only one QC element reported in the batch and the %R was above 200 then the compliance code would be rejected.

#### Surrogates

Following SWAMP MQOs, failed surrogates and associated analytes are given a QACode of GN and classified Est in the given sample

#### Precision

MS/MSD and DUP

When precision is out, the QC sample is given a QACode (IL) and all in batch for the analyte is classified as Est. In these cases, a "VIL" QACode was applied to the field samples.

**Rejection Point:** VRIL was applied to the field samples when the RPD in either the MS/MSD or DUP was >50 and the compliance code was changed to Rej.

#### Blank Contamination

A 3X rule was used for blank contamination. When field samples results were <3X the associated blank results a QACode of VRIP was applied to the samples and given a compliance code Rej. Field sample results >= 3X the blank were given a QACode of VIP and compliance code remained Com.

#### Holding Times

Samples outside HT were given a QACode of H and a compliance code of Est.

#### Screening Results

Sample results that were screened as in the case of Aroclors were given a QACode of HT,SCR and a compliance code of Est

#### Missing QC elements

Batches where the required QC elements were not performed were given a BatchVer code of "VI" and a compliance code of Est.