

CALA ACCREDITATION PROGRAM
PROPOSED SCOPE OF TESTING
Correlation Proviso: All Options

LABORATORY NAME: Flett Research Ltd.

CLIENT ID: 1003306

FIELD OF ACCREDITATION: Environmental

MATRIX: Solids

APPENDIX NO / NAME

002 Mercury - Solids [Soil]

LAB METHOD ID

T00130

ANALYTICAL

COLD VAPOUR ATOMIC
FLUORESCENCE SPECTROSCOPY
(CVAFS)

PREPARATION

DIGESTION

METHOD REFERENCE

ANALYTICA CHIMICA ACTA 281: 135-152
EPA 1631E

MODIFIED

Yes
Yes

ANALYTICAL

Yes
Yes

PREPARATION

No
No

ANALYTE:

Mercury

OPTION PT ACCRED

100%
i Proficient Yes

APPENDIX NO / NAME

011 Mercury - Solids [Soil]

LAB METHOD ID

T00210

ANALYTICAL

THERMAL DECOMPOSITION
ATOMIC ABSORPTION
SPECTROPHOTOMETRY (DMA)

PREPARATION

METHOD REFERENCE

EPA 7473

MODIFIED

Yes

ANALYTICAL

Yes

PREPARATION

No

ANALYTE:

Mercury

OPTION PT ACCRED

100%
i Proficient Yes

APPENDIX NO / NAME

015 Methyl mercury - Solids [Soil]

LAB METHOD ID

M10240, M10241

ANALYTICAL

COLD VAPOUR ATOMIC
FLUORESCENCE SPECTROSCOPY
(CVAFS)

PREPARATION

DISTILLATION

METHOD REFERENCE

ANALYTICA CHIMICA ACTA: 135-152
EPA 1630

MODIFIED

Yes
Yes

ANALYTICAL

Yes
Yes

PREPARATION

No
No

ANALYTE:

Methyl mercury

OPTION PT ACCRED

100%
vi Yes

CALA ACCREDITATION PROGRAM
PROPOSED SCOPE OF TESTING
Correlation Proviso: All Options

LABORATORY NAME: Flett Research Ltd.

CLIENT ID: 1003306

APPENDIX NO / NAME

017 Lead-210 - Solids [Soil]

LAB METHOD ID

N20110

ANALYTICAL

ALPHA SPECTROSCOPY

PREPARATION

DIGESTION,
DISTILLATION

METHOD REFERENCE

EAKINS & MORRISON. JOURNAL OF APPLIED
RADIATION & ISOTOPES 29, 531-536

MODIFIED

Yes

ANALYTICAL

Yes

PREPARATION

No

ANALYTE:

Lead-210

OPTION

100%

PT

vi

ACCRED

Yes

APPENDIX NO / NAME

018 Radionuclides - Solids [Soil]

LAB METHOD ID

N30120

ANALYTICAL

GAMMA SPECTROSCOPY

PREPARATION

METHOD REFERENCE

EML HASL-300 METHOD GA-01-R

MODIFIED

Yes

ANALYTICAL

Yes

PREPARATION

No

ANALYTE:

Actinium-228
Americium-241
Bismuth-214
Cesium-134
Cesium-137
Cobalt-60
Lead-212
Lead-214
Potassium-40
Thorium-234

OPTION

100%

PT

ii	Proficient	Yes
ii	Proficient	Yes
ii	Proficient	Yes
ii	Proficient	Yes
ii	Proficient	Yes
ii	Proficient	Yes
ii	Proficient	Yes
ii	Proficient	Yes
ii	Proficient	Yes
ii	Proficient	Yes

ACCRED

APPENDIX NO / NAME

019 Radium-226 - Solids [Soil]

LAB METHOD ID

N40110

ANALYTICAL

ALPHA SPECTROSCOPY (RN-222
EMANATION)

PREPARATION

DIGESTION

METHOD REFERENCE

MATHIEU BISCAYE, LUPTON & HAMMOND.
HEALTH PHYSICS 55, 989-992

MODIFIED

Yes

ANALYTICAL

Yes

PREPARATION

No

ANALYTE:

Radium-226 (Rn-222)

OPTION

100%

PT

vi

ACCRED

Yes

MATRIX: Tissue

CALA ACCREDITATION PROGRAM
PROPOSED SCOPE OF TESTING
Correlation Proviso: All Options

LABORATORY NAME: Flett Research Ltd.

CLIENT ID: 1003306

APPENDIX NO / NAME

003 Mercury - Tissue [Biological]

LAB METHOD ID

T00110

ANALYTICAL

COLD VAPOUR ATOMIC
FLUORESCENCE SPECTROSCOPY
(CVAFS)

PREPARATION

DIGESTION

METHOD REFERENCE

ANALYTICAL CHEMISTRY 48: 926-928
EPA 1631E

MODIFIED

Yes
Yes

ANALYTICAL

Yes
Yes

PREPARATION

No
No

ANALYTE:

Mercury

OPTION

100%
iv

PT

ACCRED

Yes

APPENDIX NO / NAME

010 Mercury - Tissue [Biological]

LAB METHOD ID

T00210

ANALYTICAL

THERMAL DECOMPOSITION
ATOMIC ABSORPTION
SPECTROPHOTOMETRY (DMA)

PREPARATION

METHOD REFERENCE

EPA 7473

MODIFIED

Yes

ANALYTICAL

Yes

PREPARATION

No

ANALYTE:

Mercury

OPTION

100%
iv

PT

ACCRED

Yes

APPENDIX NO / NAME

012 Methyl mercury - Tissue [Biological]

LAB METHOD ID

M10220, M10221

ANALYTICAL

COLD VAPOUR ATOMIC
FLUORESCENCE SPECTROSCOPY
(CVAFS)

PREPARATION

DIGESTION

METHOD REFERENCE

CAN. J. FISH. AQUAT. SCI. 46:1131-1140
EPA 1630

MODIFIED

Yes
No

ANALYTICAL

Yes
Yes

PREPARATION

No
No

ANALYTE:

Methyl mercury

OPTION

100%
iv

PT

ACCRED

Yes

MATRIX: Water

APPENDIX NO / NAME

001 Mercury - Water

CALA ACCREDITATION PROGRAM
PROPOSED SCOPE OF TESTING
Correlation Proviso: All Options

LABORATORY NAME: Flett Research Ltd.

CLIENT ID: 1003306

LAB METHOD ID

T00120

ANALYTICAL

COLD VAPOUR ATOMIC
 FLUORESCENCE SPECTROSCOPY
 (CVAFS)

PREPARATION

OXIDATION

METHOD REFERENCE

EPA 1631E

MODIFIED

Yes

ANALYTICAL

Yes

PREPARATION

No

ANALYTE:

Mercury

OPTION

100%

PT

Proficient Yes

ACCRED

APPENDIX NO / NAME

016 Methyl mercury - Water

LAB METHOD ID

M10210, M10211

ANALYTICAL

COLD VAPOUR ATOMIC
 FLUORESCENCE SPECTROSCOPY
 (CVAFS)

PREPARATION

DISTILLATION

METHOD REFERENCE

EPA 1630

MODIFIED

Yes

ANALYTICAL

Yes

PREPARATION

No

ANALYTE:

Methyl mercury

OPTION

100%

PT

vi

ACCRED

Yes