



Fiscal Year
2012

Department of Energy's



For more information: www.inl.gov/resl/mapep

Mixed Analyte Performance Evaluation Program

MAPEP offers
Semiannual
Proficiency Testing
in:

- ◆ Water
- ◆ Soil
- ◆ Air Filters
- ◆ Vegetation

Containing
NIST-Traceable

- ◆ Radionuclides
- ◆ Inorganics
- ◆ Organics

Reference
Laboratory
for NRC & DOE

Accredited to
ISO 17025
ISO 17043
ISO G34

Directly Traceable to the
National
Institute of Science &
Technology through the
Radiological Traceability
Program

The Mixed Analyte Performance Evaluation Program (MAPEP) provides quality assurance oversight for environmental analytical services by performing semiannual performance testing (PT) and evaluation of both DOE onsite and commercial analytical laboratories.



MAPEP provides performance-based assessment of participating laboratories.

Distributes environmental PT samples semiannually to:

- ◆ Over 100 national laboratories
- ◆ Over 35 international laboratories

Laboratories complete over 7,000 analyses per session for:

- ◆ Alpha, Beta and Gamma Emitters
- ◆ Priority Pollutant Inorganics
- ◆ Pesticides & Semi-volatile Organics

#	Study	Result	Ref. Value	Flag	Notes	Chk	Unc.	Unc.	Units
1	MAPEP-09-MA520	34.257	35.2	A		-23.5	2.97		(Bq/g)
2	MAPEP-09-MJW20	0.578	0.636	A		+0.1	0.05		(Bq/L)
3	MAPEP-09-RSF20	0.189	0.205	A		-8.3	0.017		(Bq/sample)
4	MAPEP-09-RV20	0.233	0.304	A		-23.9	0.022		(Bq/sample)
5	MAPEP-08-MAW19	0.00240		A			0.00235		(Bq/g)
6	MAPEP-08-RSF19	0.000117		A			0.000690		(Bq/sample)
7	MAPEP-08-RV19	0.261	0.296	A		-8.7	0.0240		(Bq/sample)
8	MAPEP-08-MA519	43.6	49.1	A		-8.0	5.20		(Bq/g)
9	MAPEP-07-MAW18	1.12	1.23	A		-8.9	0.295		(Bq/L)

MAPEP's Interactive Website

- ◆ Report results over the web
- ◆ Individual Performance Reports
- ◆ Session Summary Reports
- ◆ Query for historical trending by analyte and/or matrix
- ◆ Graphics display

