Series 15 Particpants - GrW

Lab Code	Lab Name
ADEM01	Alabama Department of Environmental Management
AFOH01	AFIOH/SDRR
ANLA01	Argonne National Laboratory/Analytical Chemistry Lab.
ANTE01	Paragon Analytics a Division of DataChem Laboratories, Inc.
ARPL01	Analytical Support Operations - Radiochemical Processing Lab
ARSL01	American Radiation Services Inc.
ATLI01	ATL International, Inc.
AY1201	BWXT Y-12, Analytical Chemistry Organization Laboratory
CDHS01	California Department of Health Services
CESL01	Lawrence Livermore National Laboratory - EMRL
CHMH01	222-S Laboratory
CORE02	STL Denver
CYAP01	Connecticut Yankee Atomic Power Company (CYAPCo)
DEHS01	Department of Environmental Health & Safety
ENES01	Energy Northwest Environmental Services
ERCL01	Public Health Laboratories
ERLG01	Environmental Radiation Laboratory
ERPD99	Environmental Radiation Protection Division
FDHE01	Florida Dept of Health Environmental Laboratory
FMEC99	Food and Environment Monitoring Center
FNAL01	Fermi National Accelerator Laboratory (FermiLab)
GENE01	General Engineering Laboratories, LLC
GPLP01	GPL Laboratories, LLLP
GROW01	FGL Environmental
HCAL01	Hazards Control Analytical Lab
HECR01	SC Dept. Health and Environmental Control Radiological Laboratory
HWRL01	Lawrence Livermore National Laboratory - HWRL
ISUP01	ISU - Department of Physics/Health Physics/EAL
JAEC99	Radiation Measurements Laboratory
KAST99	Environmental Studies Laboratory
LOCK01	ICP Analytical Laboratories Department
LOCK03	Reactor Technology Complex (RTC) Radioanalytical Laboratory
MART01	USEC, Inc.
MART02	United States Enrichment Corporation
MART03	Radioactive Material Analysis Laboratory
MDPH01	MDPH-Radiation Control Program
NARL01	National Air and Radiation Environmental Laboratory

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Lab Code	Lab Name
NESI01	BWXT Services-Radioisotope & Analytical Chemistry Laboratory
NJDH01	New Jersey Dept. of Health & Senior Services, PHEL, ECLS
NRLL99	National Radiation Laboratory
NTSI01	Nuclear Technology Services, Inc.
OBGL01	O'Brien & Gere Laboratories, Inc.
ODHL01	Ohio Department of Health Laboratory
ORIS01	ORISE/ESSAP
OTLI01	Outreach Technologies, Inc.
PESL01	Environmental Science Lab PNNL/ESL
QUAN01	STL St. Louis
QUAN03	SEVERN TRENT LABORATORIES RICHLAND
RECC01	GEL Laboratories of Ohio, LLC
RMCL99	Royal Scientific Society - Radiation Measurements Lab
RPSC01	Radiation Protection Service
RSAL01	RSA Laboratories, Inc.
SCAL01	Sanford Cohen and Associates, Inc.
SEML01	SRS Environmental Monitoring Laboratory
SLDL01	Scientific Laboratory Division
SNRC99	Soreq NRC
SOUT01	Southwest Research Institute
TDHL01	Texas Department of State Health Services Laboratory
TELE01	TELEDYNE BROWN ENGINEERING - ENVIRONMENTAL SERVICES
TELE02	Environmental, Inc., Midwest Lab
TMAE01	Eberline Services, Inc.
TMAO01	EBERLINE SERVICES OAK RIDGE LABORATORY
TMAR01	Eberline Services
TNUT01	FUSRAP
UQNP99	Qatar University- Nuclear Physics Lab
WEST03	Waste Sampling and Characterization Facility
WEST04	PACE ANALYTICAL SERVICES WALTZ MILL SITE
WSHL01	Wisconsin State Laboratory of Hygiene
WVDP01	WVDP Environmental Laboratory
XXPNL1	Pacific Northwest National Laboratory

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Labs Not Reporting GrW

LAB_CODE LAB_NAME

Alabama Department of Environmental Management
STL Denver
Connecticut Yankee Atomic Power Company (CYAPCo)
Food and Environment Monitoring Center
Fermi National Accelerator Laboratory (FermiLab)
Hazards Control Analytical Lab
Environmental Studies Laboratory
MDPH-Radiation Control Program
BWXT Services-Radioisotope & Analytical Chemistry Laborator
Nuclear Technology Services, Inc.
Outreach Technologies, Inc.
Environmental Science Lab PNNL/ESL
Royal Scientific Society - Radiation Measurements Lab
RSA Laboratories, Inc.
Qatar University- Nuclear Physics Lab
PACE ANALYTICAL SERVICES WALTZ MILL SITE

Statistical Summary

Sample ID: MAPEP-06-GrW15

Gross Alpha / Beta Water Standard

		Grand	Std.	Reference	Analyte	Acceptance	
Analyte	T(1) A(2)	Mean	Dev.	Value	Text	Limits	Units
Gross alpha	53 51	0.539	0.197	0.581		>0.0 - 1.162	(Bq/L)
Gross beta	52 46	1.315	0.213	1.13		0.56 - 1.70	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/-50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Note:

Outliers are excluded from the statistical summary.

Outliers are defied as laboratory data with a bias greater than 60 percent for gamma spectrometry analyses and 30 percent for all others.

- (1) T = Total Number of Laboratories Reporting Analyte.
- (2) A = Number of Laboratories with 'Acceptable' Performance.

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Laboratory Results - Gross alpha / beta Water Standard

AFOH01 AFIOH/SDRR

Sample ID:

MAPEP-06-GrW15

2350 Gillingham Dr

Brooks City-Base

TX 78235-5103

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.78	0.581	Α		34.3	>0.0 - 1.162	0.19 H	(Bq/L)
Gross beta	1.36	1.13	Α		20.4	0.56 - 1.70	0.18	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

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N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ANLA01

Argonne National Laboratory/Analytical Chemistry Lab.

IL

Sample ID:

MAPEP-06-GrW15

9700 S. Cass Avenue

Argonne

60439-4803

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Flag	
Gross alpha	0.34	0.581	Α		-41.5	>0.0 - 1.162	0.03	(Bq/L)
Gross beta	1.44	1.13	Α		27.4	0.56 - 1.70	0.06	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

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2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ANTE01

Paragon Analytics a Division of DataChem Laboratories,

Sample ID:

MAPEP-06-GrW15

225 Commerce Drive

Fort Collins

CO 80524-1416

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	Units
Gross alpha	0.419	0.581	Α		-27.9	>0.0 - 1.162	0.051	(Bq/L)
Gross beta	1.28	1.13	Α		13.3	0.56 - 1.70	0.115	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

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Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ARPL01

Analytical Support Operations - Radiochemical Processi

Sample ID:

MAPEP-06-GrW15

PO Box 999

	Richland	W	'A	99352				
Analyte	Result	Ref Value	Flag	Flag Text	<i>Bias</i> (%)	Acceptance Range	Unc Und Value Fla	
Gross alpha	0.354	0.581	Α		-39.1	>0.0 - 1.162	0.06	(Bq/L)
Gross beta	1.1	1.13	Α		-2.7	0.56 - 1.70	0.11	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ARSL01

American Radiation Services Inc.

Sample ID:

MAPEP-06-GrW15

2609 North River Road

Port Allen

LA 70767

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.26	0.581	Α		-55.3	>0.0 - 1.162	0.18 H	(Bq/L)
Gross beta	1.45	1.13	Α		28.3	0.56 - 1.70	0.19	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ATLI01

ATL International, Inc.

Sample ID:

MAPEP-06-GrW15

20010 Century Blvd, Suite 500

Germantown

MD

20874

Analyte	Result	Ref Value	Flag	Flag Text	<i>Bias</i> (%)	Acceptance Range	Unc Unc. Value Flag	Units
Gross alpha	0.4993	0.581	Α		-14.1	>0.0 - 1.162	0.2115 H	(Bq/L)
Gross beta	1.5175	1.13	Α		34.3	0.56 - 1.70	0.1005	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

AY1201

BWXT Y-12, Analytical Chemistry Organization Laborato

Sample ID:

MAPEP-06-GrW15

Y12, NSC, Bldg. 9995, Rm 142

Oak Ridge

TN

37831-8189

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc U Value Fi	nc. lag Units
Gross alpha	0.563	0.581	Α		-3.1	>0.0 - 1.162	0.17 I	H (Bq/L)
Gross beta	1.36	1.13	Α		20.4	0.56 - 1.70	0.22	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

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A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

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Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

CDHS01

California Department of Health Services

Sample ID:

MAPEP-06-GrW15

Sanitation & Radiation Lab.

Richmond

94804-6403

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc Value Flag	
Gross alpha	0.484	0.581	Α		-16.7	>0.0 - 1.162	0.211 H	(Bq/L)
Gross beta	1.44	1.13	Α		27.4	0.56 - 1.70	0.189	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

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Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

CESL01

Lawrence Livermore National Laboratory - EMRL

Sample ID:

MAPEP-06-GrW15

7000 East Avenue

Livermore CA 94551

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.241	0.581	Α		-58.5	>0.0 - 1.162	0.00608 L	(Bq/L)
Gross beta	1.09	1.13	Α		-3.5	0.56 - 1.70	0.0213 L	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

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QL = Quantitation Limit

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Flag Text

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4 - Sensitivity Evaluation

5 - Total Metal

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7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

CHMH01

222-S Laboratory

Sample ID:

MAPEP-06-GrW15

Hanford MSIN

Richland

WA 99352

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Value	Unc. Flag	Units
Gross alpha	0.429	0.581	Α		-26.2	>0.0 - 1.162	0.15	Н	(Bq/L)
Gross beta	1.27	1.13	Α		12.4	0.56 - 1.70	0.35	Н	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

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Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

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9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

DEHS01

Department of Environmental Health & Safety

NC

Sample ID:

MAPEP-06-GrW15

North Carolina State Univ.

Raleigh

27695-8007

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	9.73	0.581	N		1574.7	>0.0 - 1.162	1.61	(Bq/L)
Gross beta	9.61	1.13	N		750.4	0.56 - 1.70	0.92	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ENES01

Energy Northwest Environmental Services

Sample ID:

MAPEP-06-GrW15

350 Hills St., Suite 107

Richland

WA

99354

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Flag	
Gross alpha	0.6801	0.581	Α		17.1	>0.0 - 1.162	0.078	(Bq/L)
Gross beta	1.7606	1.13	N		55.8	0.56 - 1.70	0.061	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ERCL01

Public Health Laboratories

Sample ID:

MAPEP-06-GrW15

1610 N.E. 150 th Srteet

Shoreline

WA

98155-9701

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc Value Flag	
Gross alpha	0.58	0.581	Α		-0.2	>0.0 - 1.162	0.10	(Bq/L)
Gross beta	1.30	1.13	Α		15.0	0.56 - 1.70	0.09	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ERLG01

Environmental Radiation Laboratory

Sample ID:

MAPEP-06-GrW15

Georgia Institute of Tech.

Atlanta

30332

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	Units
Gross alpha	.71	0.581	Α		22.2	>0.0 - 1.162	.1	(Bq/L)
Gross beta	1.4	1.13	Α		23.9	0.56 - 1.70	0.2	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ERPD99

Environmental Radiation Protection Division

Sample ID:

MAPEP-06-GrW15

Mubarak Al-Kabeer Street, al-Awqaf Compl

Sharq

Kuwait

656

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.8000	0.581	Α		37.7	>0.0 - 1.162	0.0384	(Bq/L)
Gross beta	2.4000	1.13	N		112.4	0.56 - 1.70	0.1392	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

FDHE01

Florida Dept of Health Environmental Laboratory

FL

Sample ID:

MAPEP-06-GrW15

PO Box 680069

Orlando

32868-0069

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Flag	
Gross alpha	0.78	0.581	Α		34.3	>0.0 - 1.162	0.05	(Bq/L)
Gross beta	1.53	1.13	Α		35.4	0.56 - 1.70	0.08	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

GENE01

General Engineering Laboratories, LLC

Sample ID:

MAPEP-06-GrW15

2040 Savage Road

Charleston

SC 29407

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	
Gross alpha	0.465	0.581	Α		-20.0	>0.0 - 1.162	0.033	(Bq/L)
Gross beta	1.313	1.13	Α		16.2	0.56 - 1.70	0.040	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

GPLP01 GPL Laboratories, LLLP

Sample ID:

MAPEP-06-GrW15

7210A Corporate Court

Frederick

MD 21703

		Ref			Flag	Bias	Acceptance	Unc Unc.	
Analyte	Result	Value	Flag	Text	(%)	Range	Value Fla	g Units	
Gross alpha	0.2867	0.581	Α		-50.7	>0.0 - 1.162	0.0426	(Bq/L)	
Gross beta	0.6445	1.13	Α		-43.0	0.56 - 1.70	0.0265	(Bq/L)	

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

N = Result not acceptable Bias > 30%

L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

GROW01

FGL Environmental

Sample ID:

MAPEP-06-GrW15

853 Corporation St.

Santa Paula

CA 93060-

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc Value Flag	
Gross alpha	1.20	0.581	N		106.5	>0.0 - 1.162	0.1	(Bq/L)
Gross beta	1.42	1.13	Α		25.7	0.56 - 1.70	0.12	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

HECR01

SC Dept. Health and Environmental Control Radiological

Sample ID:

MAPEP-06-GrW15

2600 Bull St.

Columbia

SC 29201

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	Units
Gross alpha	0.762	0.581	Α		31.2	>0.0 - 1.162	0.125	(Bq/L)
Gross beta	1.061	1.13	Α		-6.1	0.56 - 1.70	0.125	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

HWRL01

Lawrence Livermore National Laboratory - HWRL

Sample ID:

MAPEP-06-GrW15

7000 East Avenue

Livermore CA 94551

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	Units
Gross alpha	0.394	0.581	Α		-32.2	>0.0 - 1.162	0.035	(Bq/L)
Gross beta	1.31	1.13	Α		15.9	0.56 - 1.70	0.046	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ISUP01

ISU - Department of Physics/Health Physics/EAL

Sample ID:

MAPEP-06-GrW15

785 S. 8th Ave, Rm 120

Pocatello

ID

83209-8106

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Flag	
Gross alpha	0.33	0.581	Α		-43.2	>0.0 - 1.162	0.05	(Bq/L)
Gross beta	1.49	1.13	Α		31.9	0.56 - 1.70	0.07	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

JAEC99

Radiation Measurements Laboratory

Sample ID:

MAPEP-06-GrW15

Jordan Atomic Energy Commission

Amman Jordan 00962 6

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range		nc. lag Units
Gross alpha	0.0464	0.581	Α		-92.0	>0.0 - 1.162	0.0740	H (Bq/L)
Gross beta	0.282	1.13	N		-75.0	0.56 - 1.70	0.041	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

LOCK01

ICP Analytical Laboratories Department

Sample ID:

MAPEP-06-GrW15

CH2M-WG Idaho, LLC

Idaho Falls

ID 83415-5210

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	
Gross alpha	0.539	0.581	Α		-7.2	>0.0 - 1.162	0.088	(Bq/L)
Gross beta	1.57	1.13	Α		38.9	0.56 - 1.70	0.11	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

N = Result not acceptable Bias > 30%

L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

LOCK03

Reactor Technology Complex (RTC) Radioanalytical Lab

Sample ID:

MAPEP-06-GrW15

INL/Battelle Energy Alliance, LLC

Scoville

ID

83415-7111

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Ur Value Fla	
Gross alpha	0.32	0.581	Α		-44.9	>0.0 - 1.162	0.08 H	(Bq/L)
Gross beta	1.32	1.13	Α		16.8	0.56 - 1.70	0.15	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

MART01 USEC, Inc.

Sample ID:

MAPEP-06-GrW15

Lab COC, Bldg. X-710, Rm 222

Piketon

ОН

45661-

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Fla	
Gross alpha	0.5365	0.581	Α		-7.7	>0.0 - 1.162	0.085	(Bq/L)
Gross beta	1.5133	1.13	Α		33.9	0.56 - 1.70	0.121	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

MART02

United States Enrichment Corporation

Sample ID:

MAPEP-06-GrW15

5600 Hobbs Road

Paducah	KY	42001-

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	
Gross alpha	0.36	0.581	Α		-38.0	>0.0 - 1.162	0.12 H	(Bq/L)
Gross beta	0.59	1.13	Α		-47.8	0.56 - 1.70	0.06	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

MART03 Radioactive Material Analysis Laboratory

Sample ID:

MAPEP-06-GrW15

ORNL

Oak Ridge TN 37831-6223

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc U Value Fi	nc. ag Units
Gross alpha	0.28	0.581	Α		-51.8	>0.0 - 1.162	0.11 H	H (Bq/L)
Gross beta	1.20	1.13	Α		6.2	0.56 - 1.70	0.16	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

NARL01

National Air and Radiation Environmental Laboratory

Sample ID:

MAPEP-06-GrW15

540 S. Morris Ave.

Montgomery

AL 36115-2601

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	Units
Gross alpha	0.637	0.581	Α		9.6	>0.0 - 1.162	0.133 H	(Bq/L)
Gross beta	1.43	1.13	Α		26.5	0.56 - 1.70	0.06	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

NJDH01

New Jersey Dept. of Health & Senior Services, PHEL, E

Sample ID:

MAPEP-06-GrW15

Market and Warren Streets

Trenton

08625-0361

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc Value Flag	
Gross alpha	0.839	0.581	Α		44.4	>0.0 - 1.162	0.042	(Bq/L)
Gross beta	1.35	1.13	Α		19.5	0.56 - 1.70	0.03 L	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

NRLL99 National Radiation Laboratory

Sample ID:

MAPEP-06-GrW15

108 Victoria St

Christchurch

Christchu 8001

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.517	0.581	Α		-11.0	>0.0 - 1.162	0.030	(Bq/L)
Gross beta	1.330	1.13	Α		17.7	0.56 - 1.70	0.086	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

OBGL01

O'Brien & Gere Laboratories, Inc.

Sample ID:

MAPEP-06-GrW15

PO Box 4873

Syracuse

NY 13221-4873

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.467	0.581	Α		-19.6	>0.0 - 1.162	0.103 H	(Bq/L)
Gross beta	1.222	1.13	Α		8.1	0.56 - 1.70	0.138	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ODHL01

Ohio Department of Health Laboratory

Sample ID:

MAPEP-06-GrW15

1571 Perry St

Columbus

OH 43201

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc L Value F	Jnc. -lag	Units
Gross alpha	.76	0.581	Α		30.8	>0.0 - 1.162	.19	Н	(Bq/L)
Gross beta	1.14	1.13	Α		0.9	0.56 - 1.70	0.26	Н	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

ORISO1 ORISE/ESSAP

Sample ID:

MAPEP-06-GrW15

PO Box 117

Oak Ridge

TN 37831-0117

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Flag	
Gross alpha	0.65	0.581	Α		11.9	>0.0 - 1.162	0.06	(Bq/L)
Gross beta	1.52	1.13	Α		34.5	0.56 - 1.70	0.10	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

QUAN01

STL St. Louis

Sample ID:

MAPEP-06-GrW15

13715 Rider Trail North

Earth City

MO 63045-

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	
Gross alpha	0.4476	0.581	Α		-23.0	>0.0 - 1.162	0.0313	(Bq/L)
Gross beta	1.2575	1.13	Α		11.3	0.56 - 1.70	0.0662	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

QUAN03

Analyte

Gross alpha

Gross beta

SEVERN TRENT LABORATORIES RICHLAND

Sample ID:

MAPEP-06-GrW15

2800 GEORGE WASHINGTON WAY

RICHLAND

Result

0.60

1.03

V V		33334					
Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Value I	Unc. Flag Units	
0.581	Α		3.3	>0.0 - 1.162	0.067	(Bq/L)	
1.13	Α		-8.9	0.56 - 1.70	0.077	(Bq/L)	

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low

H = Uncertainty potentially too high Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

RECC01 GEL Laboratories of Ohio, LLC

Sample ID:

MAPEP-06-GrW15

6954 Cornell Road

Cincinnati

ОН

45242-3025

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range		nc. lag Units
Gross alpha	0.519	0.581	Α		-10.7	>0.0 - 1.162	0.0925	(Bq/L)
Gross beta	1.51	1.13	Α		33.6	0.56 - 1.70	.0914	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

RPSC01 Radiation

Radiation Protection Service

Sample ID:

MAPEP-06-GrW15

Ontario Ministry of Labour

Weston

M9P 3T1

Ontario

Analyte	Result	Ref Value	Flag	Flag Text	<i>Bias</i> (%)	Acceptance Range		Unc. Flag	Units
Gross alpha	0.69	0.581	Α		18.8	>0.0 - 1.162	0.16	Н	(Bq/L)
Gross beta	1.02	1.13	Α		-9.7	0.56 - 1.70	.06		(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

SCAL01

Sanford Cohen and Associates, Inc.

Sample ID:

MAPEP-06-GrW15

1000 Monticello Court

Montgomery

AL 36117-

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc U Value F	nc. lag Uni	its
Gross alpha	0.555	0.581	Α		-4.5	>0.0 - 1.162	0.142	H (Bq/	/L)
Gross beta	1.25	1.13	Α		10.6	0.56 - 1.70	0.188	(Bq/	/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

SEML01 SRS Environmental Monitoring Laboratory

Sample ID:

MAPEP-06-GrW15

Bldg 735-B

Aiken

SC 29808

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc Value Flag	
Gross alpha	0.68	0.581	Α		17.0	>0.0 - 1.162	0.14 H	(Bq/L)
Gross beta	1.26	1.13	Α		11.5	0.56 - 1.70	0.14	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

SLDL01 Scientific Laboratory Division

Sample ID:

MAPEP-06-GrW15

PO Box 4700

Albuquerque

NM

87196-4700

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Fla	
Gross alpha	0.59	0.581	Α		1.5	>0.0 - 1.162	0.10	(Bq/L)
Gross beta	1.38	1.13	Α		22.1	0.56 - 1.70	0.23	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

SNRC99

Soreq NRC

Sample ID:

MAPEP-06-GrW15

Radioactivity Measurement Section

Yavne

Israel

81800

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Fla	
Gross alpha	0.77	0.581	Α		32.5	>0.0 - 1.162	0.08	(Bq/L)
Gross beta	1.38	1.13	Α		22.1	0.56 - 1.70	0.24	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

SOUT01

Southwest Research Institute

Sample ID:

MAPEP-06-GrW15

6220 Culebra Rd.

San Antonio

TX

78228-0510

Analyte	Result	Ref Value	Flag	Flag Text	<i>Bias</i> (%)	Acceptance Range	Unc Und Value Fla	
Gross alpha	0.989	0.581	Α		70.2	>0.0 - 1.162	0.230 H	(Bq/L)
Gross beta	1.22	1.13	Α		8.0	0.56 - 1.70	0.181	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

TDHL01

Texas Department of State Health Services Laboratory

Sample ID:

MAPEP-06-GrW15

1100 W 49th Street

Austin

TX 78756

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc Value Flag	
Gross alpha	0.392	0.581	Α		-32.5	>0.0 - 1.162	0.070	(Bq/L)
Gross beta	1.35	1.13	Α		19.5	0.56 - 1.70	0.12	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

TELE01

TELEDYNE BROWN ENGINEERING - ENVIRONMENT

Sample ID:

MAPEP-06-GrW15

2508 Quality Lane

Knoxville TN 37931-6819

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	Units
Gross alpha	5.75E-01	0.581	Α		-1.0	>0.0 - 1.162	2.19E-01 H	(Bq/L)
Gross beta	1.52E+00	1.13	Α		34.5	0.56 - 1.70	1.84E-01	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

TELE02 Environ

Environmental, Inc., Midwest Lab

Sample ID:

MAPEP-06-GrW15

700 Landwehr Road

Northbrook

60062-

IL

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Und Value Flag	
Gross alpha	0.59	0.581	Α		1.5	>0.0 - 1.162	0.10	(Bq/L)
Gross beta	1.69	1.13	Α		49.6	0.56 - 1.70	0.07	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low

H = Uncertainty potentially too high
Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

TMAE01

Eberline Services, Inc.

Sample ID:

MAPEP-06-GrW15

7021 Pan American Freeway N.E.

Albuquerque

NM

87109-

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.696	0.581	Α		19.8	>0.0 - 1.162	0.108	(Bq/L)
Gross beta	1.36	1.13	Α		20.4	0.56 - 1.70	0.142	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

TMAO01

EBERLINE SERVICES OAK RIDGE LABORATORY

Sample ID:

MAPEP-06-GrW15

601 SCARBORO RD

OAK RIDGE

TN 37830-

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Ur Value Fla	
Gross alpha	0.652	0.581	Α		12.2	>0.0 - 1.162	0.075	(Bq/L)
Gross beta	1.77	1.13	N		56.6	0.56 - 1.70	0.095	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

TMAR01

Eberline Services

Sample ID:

MAPEP-06-GrW15

2030 Wright Ave

Richmond

94804-0040

CA

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Ur Value Fla	
Gross alpha	0.217	0.581	Α		-62.7	>0.0 - 1.162	0.048 H	(Bq/L)
Gross beta	0.37	1.13	N		-67.3	0.56 - 1.70	0.048	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

TNUT01

FUSRAP

Sample ID:

MAPEP-06-GrW15

8945 LATTY AVE

BERKELEY

MO 63134-

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	Units
Gross alpha	0.838	0.581	Α		44.2	>0.0 - 1.162	0.127	(Bq/L)
Gross beta	NR	1.13				0.56 - 1.70		

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

WEST03

Waste Sampling and Characterization Facility

Sample ID:

MAPEP-06-GrW15

PO Box 1000, S3-30

Richland

WA 99352

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.321	0.581	Α		-44.8	>0.0 - 1.162	0.074 H	(Bq/L)
Gross beta	1.60	1.13	Α		41.6	0.56 - 1.70	0.19	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable

L = Uncertainty potentially too low H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

WSHL01

Wisconsin State Laboratory of Hygiene

Sample ID:

MAPEP-06-GrW15

2601 Agriculture Drive

Madison

WI 53718

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Unc. Value Flag	
Gross alpha	0.73	0.581	Α		25.6	>0.0 - 1.162	0.13	(Bq/L)
Gross beta	1.39	1.13	Α		23.0	0.56 - 1.70	0.10	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

N = Result not acceptable Bias > 30%

L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

17 - NOT DETECTED, reported a

statistcially zero result.

Laboratory Results - Gross alpha / beta Water Standard

WVDP01

WVDP Environmental Laboratory

Sample ID:

MAPEP-06-GrW15

10282 Rock Springs Road

West Valley

14171

Analyte	Result	Ref Value	Flag	Flag Text	Bias (%)	Acceptance Range	Unc Un Value Fla	
Gross alpha	0.339	0.581	Α		-41.7	>0.0 - 1.162	0.0382	(Bq/L)
Gross beta	1.33	1.13	Α		17.7	0.56 - 1.70	0.0615	(Bq/L)

Gross Alpha Flags:

A = Result acceptable, Bias <= +/- 100% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

N = Result not acceptable, Bias > +/- 100% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Gross Beta Flags:

A = Result acceptable, Bias <= +/- 50% with a statistically positive result at two standard deviations (Result/Uncertainty > 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, does not include zero).

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Flags:

A = Result acceptable

Bias <= 20%

W = Result acceptable with warning 20% < Bias <= 30%

Bias > 30%

N = Result not acceptable L = Uncertainty potentially too low

H = Uncertainty potentially too high

Q = Particapant should evaluate reported value

QL = Quantitation Limit

RW = Report Warning

NR = Not Reported

Flag Text

1 - False Positive

2 - False Negative

4 - Sensitivity Evaluation

5 - Total Metal

6 - Not Evaluated

7 - DL > CLP Limit

9 - Check QL

10 - Check Isomer

11 - False Positive Test, Value Not Reported

14 - Solubility Issue

15 - Refractory

16 - Reported zero uncertainty

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statistcially zero result.



