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- 2. Customer acknowledges that it is responsible for its own compliance with U.S. export control laws and regulations. Customer further agrees that it assumes the responsibility to obtain all necessary U.S. export licenses or other U.S. governmental authorizations, as well as all liability for the failure to do so.
- 3. Customer acknowledges that export control requirements may change and that the export or reexport of RESL products, technical data, and services without an export license or other appropriate governmental authorization may result in criminal and/or civil liability.
- 4. The obligations and requirements described herein shall survive the expiration or termination of any agreement or contract between RESL and Customer.

GrF50 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ADEM01	Alabama Department of Environmental Management	GrF
AFOH01	USAFSAM/OEA	GrF
ARGO01	Idaho National Laboratory	GrF
ARPL01	Analytical Support Operations - Radiochemical Processing Lab	GrF
ARSL01	ARS	GrF
ASUK99	AWE (Aldermaston)	GrF
CDHS01	California Department of Public Health	GrF
CMRC01	Carlsbad Environmental Monitoring and Research Center	GrF
DEHS01	Department of Environmental Health & Safety	GrF
DLEA01	DLE Associates	GrF
ERCL01	Washington State Public Health Laboratories	GrF
ERHD99	National Monitoring Section, Radiation Protection Bureau, Health Canada	GrF
FDHE01	Florida Dept of Health Environmental Laboratory	GrF
FDOH01	Florida Dept. of Health, Mobile Environmental Radiological Lab	GrF
GENE01	GEL Laboratories, LLC	GrF
HECR01	SC Dept. Health and Environmental Control Radiological Laboratory	GrF
HPAL01	Los Alamos National Laboratory	GrF
IEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	GrF
ISUE01	ISU Environmental Monitoring Laboratory	GrF
JLNN01	Jefferson Laboratory	GrF
MART03	Radioactive Material Analysis Laboratory	GrF
NESI01	BWXT-Radioisotope & Analytical Chemistry Laboratory	GrF
NOCS99	National Oceanography Centre, Southampton	GrF
NSPH01	Nevada State Public Health Laboratory	GrF
ODHL01	Ohio Department of Health Laboratory	GrF
RPSC01	Radiation Protection Service	GrF
SEML01	SRS Environmental Monitoring Laboratory	GrF
SMER01	State of Michigan EGLE Radiological Lab	GrF
SOUT01	Southwest Research Institute	GrF
SRPD01	Sandia National Laboratories, Radiation Protection Sample Diagnostics	GrF
STRL01	South Texas Project Radiological Laboratory	GrF
TDHL01	Texas Department of State Health Services Laboratory	GrF
TMAO01	EBERLINE Analytical Corporation	GrF
TNUT01	St. Louis USACE FUSRAP Laboratory	GrF
WSHL01	Wisconsin State Laboratory of Hygiene	GrF

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ISUP01	ISU - Department of Physics/Health Physics/EAL	GrF
LOCK03	Advanced Test Reactor (ATR) Complex Radioanalytical Laboratory	GrF
MDPH01	MDPH-Radiation Control Program	GrF
TELE02	Microbac Laboratories Inc Northbrook	GrF

Study Reference Values

MAPEP-24-GrF50

Radiological Reference Date: 02/01/2024

Analyte	Ref Value	Ref Unc
Radiological	(1	Units: Bq/sample)
Gross alpha	1.24	0.03
Gross beta	1.81	0.03

Sample Statistical Summary

MAPEP-24-GrF50

Radiological Reference Date: 02/01/2024

Analyte	T(1)	A(2)	Grand(3) Mean		Ref Value		Acceptance Range
Radiological						Units:	(Bq/sample)
Gross alpha	33	28	1.22	0.40	1.24	0.03	0.37 - 2.11
Gross beta	35	32	1.85	0.19	1.81	0.03	0.91 - 2.72

Note: (1) T = Total number of laboratories reporting analyte.

- (2) A = Number of laboratories with 'Acceptable' performance.
- (3) Mean excludes values derived as total metals and values indicated as "Not Acceptable".

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLERP < 2%
ACCEPTABLE2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING15% < RP ≤ 30%
NOT ACCEPTABLERP > 30%
Relative Precision (RP) = (Reported Uncertainty / Reported Result) x 100

Flag Summary Report

MAPEP-24-GrF50

Radiological				
Analyte	A	W	RW	N
Gross alpha	28			5
Gross beta	32			3



Laboratory Results For MAPEP-24-GrF50 (ADEM01) Alabama Department of Environmental Management 1350 Coliseum Blvd.
Montgomery, AL 36110

Radiological				Un	its: (Bq/sample)
	Ref	f	Bias	Acceptance	Unc Unc
Analyte	Result Valu	ie Flag Notes	(%)	Range	Value Flag
Gross alpha	NR	1.24		0.37 - 2.11	
Gross beta	1.924	1.81 A	6.3	0.91 - 2.72	0.03737 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (AFOH01) USAFSAM/OEA 2510 Fifth Street, Area B Wright-Patterson AFB, OH 45433-7913

Radiological			Un	its: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.7 1.24 A	37.1	0.37 - 2.11	0.2 A
Gross beta	1.88 1.81 A	3.9	0.91 - 2.72	0.08 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (ARGO01) Idaho National Laboratory INL, Materials and Fuels Complex Idaho Falls, ID 83415

Radiological			Un	its: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.573 1.24 A	-53.8	0.37 - 2.11	0.017 A
Gross beta	1.54 1.81 A	-14.9	0.91 - 2.72	0.046 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (ARPL01) Analytical Support Operations - Radiochemical Processing Lab PO Box 999 Richland, WA 99354

Radiological				Uni	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	2.26	1.24 N	82.3	0.37 - 2.11	0.41 W
Gross beta	1.72	1.81 A	-5.0	0.91 - 2.72	0.03 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (ARSL01) ARS 2609 North River Road Port Allen, LA 70767

Radiological				Uni	its: (Bq/sample)
	Re	f	Bias	Acceptance	Unc Unc
Analyte	Result Val	ue Flag Notes	(%)	Range	Value Flag
Gross alpha	1.183	1.24 A	-4.6	0.37 - 2.11	0.149 A
Gross beta	2.118	1.81 A	17.0	0.91 - 2.72	0.256 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (ASUK99) AWE (Aldermaston) A38.1 AWE Reading, Berkshire RG7 4PR

Radiological				U	nits: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag N	Notes (%)	Range	Value Flag
Gross alpha	2.88	1.24 N	132.3	0.37 - 2.11	0.82 W

1.81 A

0.91 - 2.72Radiological Reference Date: February 1, 2024

0.61 W

39.8

Gross Alpha Flags:

Gross beta

A = Result acceptable, Bias ≤ ± 70% 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).

2.53

N = Result not acceptable, Bias > ± 70% 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 $> \pm 50\%$ 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).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (CDHS01) California Department of Public Health Drinking Water & Radiation Lab. Richmond, CA 94804-6403

Radiological				Un	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.982	1.24 A	-20.8	0.37 - 2.11	0.0241 A
Gross beta	1.93	1.81 A	6.6	0.91 - 2.72	0.0210 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (CMRC01) Carlsbad Environmental Monitoring and Research Center 1400 University Dr. Carlsbad, NM 88220

Radiological				Un	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.705	1.24 A	-43.1	0.37 - 2.11	0.007 N
Gross beta	2.087	1.81 A	15.3	0.91 - 2.72	0.003 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (DEHS01) Department of Environmental Health & Safety North Carolina State Univ. Raleigh, NC 27695-8007

Radiological			Uı	nits: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	NR 1.24		0.37 - 2.11	
Gross beta	1.65 1.81 A	-8.8	0.91 - 2.72	0.11 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (DLEA01) DLE Associates 730 Alfred Nobel Drive Hercules, CA 94547

Radiological			Uni	ts: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.76 1.24 A	41.9	0.37 - 2.11	0.15 A
Gross beta	1.96 1.81 A	8.3	0.91 - 2.72	0.11 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (ERCL01) Washington State Public Health Laboratories 1610 N.E. 150th Street Shoreline, WA 98155-9701

Radiological				Uni	ts: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.759	1.24 A	-38.8	0.37 - 2.11	0.043 A
Gross beta	1.82	1.81 A	0.6	0.91 - 2.72	0.12 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (ERHD99) National Monitoring Section, Radiation Protection Bureau, Health Canada 775 Brookfield Road AL6302D1 Ottawa, Ontario K1A 1C1

Radiological				Un	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.52	1.24 A	22.6	0.37 - 2.11	0.06 A
Gross beta	1.47	1.81 A	-18.8	0.91 - 2.72	0.02 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (FDHE01) Florida Dept of Health Environmental Laboratory 2100 All Childrens Way Orlando, FL 32818-5271

Radiological			Uni	ts: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.4 1.24 A	12.9	0.37 - 2.11	0.05 A
Gross beta	1.92 1.81 A	6.1	0.91 - 2.72	0.03 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (FDOH01) Florida Dept. of Health, Mobile Environmental Radiological Lab 2100 All Childrens Way Orlando, FL 32818-5271

Radiological			Uni	ts: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.53 1.24 A	23.4	0.37 - 2.11	0.11 A
Gross beta	1.9 1.81 A	5.0	0.91 - 2.72	0.09 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (GENE01) GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407

Radiological					Uni	ts: (Bq/sample)
		Ref		Bias	Acceptance	Unc Unc
Analyte	Result	Value	Flag Notes	(%)	Range	Value Flag
Gross alpha	2.77	1.24	N	123.4	0.37 - 2.11	0.0928 A
Gross beta	1.84	1.81	A	1.7	0.91 - 2.72	0.0504 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (HECR01) SC Dept. Health and Environmental Control Radiological Laboratory 8231 Parklane Road Columbia, SC 29223

Radiological				Un	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.766	1.24 A	-38.2	0.37 - 2.11	0.0698 A
Gross beta	1.86	1.81 A	2.8	0.91 - 2.72	0.0806 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (HPAL01) Los Alamos National Laboratory Josh Chandler, z338219 MS G761 Los Alamos, NM 87545-1663

Radiological				Uni	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.60	1.24 A	-51.6	0.37 - 2.11	0.16 W
Gross beta	1.78	1.81 A	-1.7	0.91 - 2.72	0.25 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (IEMA01) Illinois Emergency Management Agency Radiochemistry Laboratory 1301 Knotts St.
Springfield, IL 62703

Radiological			Un	its: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.50 1.24 A	21.0	0.37 - 2.11	0.03 A
Gross beta	1.99 1.81 A	9.9	0.91 - 2.72	0.02 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (ISUE01) ISU Environmental Monitoring Laboratory 785 5th 8th Ave Rm B107 Pocatello, Idaho 83209

Radiological				Uı	nits: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Note	es (%)	Range	Value Flag
Gross alpha	3.17	1.24 N	155.6	0.37 - 2.11	.55 W
Gross beta	1.69	1.81 A	-6.6	0.91 - 2.72	.03 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (JLNN01) Jefferson Laboratory 111 Hadron Drive Newport News, VA 23606

Radiological				Ţ	Units: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag	Notes (%)	Range	Value Flag
Gross alpha	0.94	1.24 A	-24.2	0.37 - 2.11	0.03 A
Gross beta	4.1	1.81 N	126.5	0.91 - 2.72	0.03 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (MART03) Radioactive Material Analysis Laboratory ORNL

Oak Ridge, TN 37830

Radiological			Uni	its: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.467 1.24 A	18.3	0.37 - 2.11	0.065 A
Gross beta	1.996 1.81 A	10.3	0.91 - 2.72	0.079 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (NESI01) BWXT-Radioisotope & Analytical Chemistry Laboratory Lynchburg Technology Center Lynchburg, VA 24504-5447

Radiological				Un	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.01	1.24 A	-18.5	0.37 - 2.11	0.03 A
Gross beta	1.77	1.81 A	-2.2	0.91 - 2.72	0.022 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (NOCS99) National Oceanography Centre, Southampton GAU-Radioanalytical Southampton, Hampshire SO14 3ZH

Radiological					Uı	nits: (Bq/sample)
		Ref		Bias	Acceptance	Unc Unc
Analyte	Result	Value	Flag Note	es (%)	Range	Value Flag
Gross alpha	41	1.24	N	3206.5	0.37 - 2.11	2 A
Gross beta	54	1.81	N	2883.4	0.91 - 2.72	3 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (NSPH01) Nevada State Public Health Laboratory 1664 North Virginia Street, MS 328 Reno, NV 89557

Radiological			Uı	nits: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Fl	ag Notes (%)	Range	Value Flag
Gross alpha	1.14 1.24	A -8.1	0.37 - 2.11	0.034 A
Gross beta	1.92 1.81	A 6.1	0.91 - 2.72	0.140 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (ODHL01) Ohio Department of Health Laboratory 8995 E Main Street Reynoldsburg, OH 43068

Radiological				Uni	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	2.044	1.24 A	64.8	0.37 - 2.11	0.075 A
Gross beta	1.637	1.81 A	-9.6	0.91 - 2.72	0.026 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (RPSC01) Radiation Protection Service O. Ministry of Labour, Immigration, Training & Skills Developmen Mississauga, Ontario L4V 1W8

Radiological				Uni	ts: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.50	1.24 A	21.0	0.37 - 2.11	0.17 A
Gross beta	1.78	1.81 A	-1.7	0.91 - 2.72	0.22 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (SEML01) SRS Environmental Monitoring Laboratory Bldg 735-B Aiken, SC 29808

Radiological			Un	its: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.43 1.24 A	15.3	0.37 - 2.11	0.14 A
Gross beta	1.92 1.81 A	6.1	0.91 - 2.72	0.19 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (SMER01) State of Michigan EGLE Radiological Lab 815 Filley St.
Lansing, MI 48906

Radiological				Uni	ts: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.67	1.24 A	-46.0	0.37 - 2.11	0.04 A
Gross beta	1.76	1.81 A	-2.8	0.91 - 2.72	0.08 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (SOUT01) Southwest Research Institute 6220 Culebra Rd.
San Antonio, TX 78238-5166

Radiological				Uni	its: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.752	1.24 A	-39.4	0.37 - 2.11	0.0600 A
Gross beta	1.95	1.81 A	7.7	0.91 - 2.72	0.121 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (SRPD01) Sandia National Laboratories, Radiation Protection Sample Diagnostics PO Box 5800, MS1103 Albuquerque, NM 87185-1103

Radiological			Un	its: (Bq/sample)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.36E+00 1.24 A	9.7	0.37 - 2.11	1.82E-02 N
Gross beta	1.73E+00 1.81 A	-4.4	0.91 - 2.72	2.69E-02 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (STRL01) South Texas Project Radiological Laboratory 12090 FM 521 Wadsworth, Texas 77483

Radiological				Unit	s: (Bq/sample)
	Re	ef	Bias	Acceptance	Unc Unc
Analyte	Result Val	lue Flag Notes	(%)	Range	Value Flag
Gross alpha	1.399	1.24 A	12.8	0.37 - 2.11	0.045 A
Gross beta	1.841	1.81 A	1.7	0.91 - 2.72	0.028 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 \leq ± 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (TDHL01) Texas Department of State Health Services Laboratory 1100 W 49th Street Austin, TX 78756

Radiological				Unit	s: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.484	1.24 A	19.7	0.37 - 2.11	0.034 A
Gross beta	1.744	1.81 A	-3.6	0.91 - 2.72	0.028 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (TMAO01) EBERLINE Analytical Corporation 601 A SCARBORO RD OAK RIDGE, TN 37830-

Radiological				U	nits: (Bq/sample)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag No	otes (%)	Range	Value Flag
Gross alpha	.946	1.24 A	-23.7	0.37 - 2.11	.035 A
Gross beta	2.77	1.81 N	53.0	0.91 - 2.72	.047 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (TNUT01) St. Louis USACE FUSRAP Laboratory 112 James S McDonnell Blvd HAZELWOOD. MO 63042

Radiological				Uni	ts: (Bq/sample)
	R	tef	Bias	Acceptance	Unc Unc
Analyte	Result Va	lue Flag Notes	(%)	Range	Value Flag
Gross alpha	1.34	1.24 A	8.1	0.37 - 2.11	0.060 A
Gross beta	1.94	1.81 A	7.2	0.91 - 2.72	0.0776 A

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	.2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%



Laboratory Results For MAPEP-24-GrF50 (WSHL01) Wisconsin State Laboratory of Hygiene 2601 Agriculture Drive Madison, WI 53718

Radiological				Uni	ts: (Bq/sample)
]	Ref	Bias	Acceptance	Unc Unc
Analyte	Result V	alue Flag Notes	(%)	Range	Value Flag
Gross alpha	1.7492	1.24 A	41.1	0.37 - 2.11	0.0636 A
Gross beta	1.7454	1.81 A	-3.6	0.91 - 2.72	0.0266 N

Radiological Reference Date: February 1, 2024

Gross Alpha Flags:

A = Result acceptable, Bias $\leq \pm 70\%$ 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 > \pm 70% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 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 $\leq \pm 50\%$ 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 > \pm 50% or the reported result is not statistically positive at two standard deviations (Result/Uncertainty \leq 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

NOT ACCEPTABLE	RP < 2%
ACCEPTABLE	2% ≤ RP ≤ 15%
ACCEPTABLE WITH WARNING.	15% < RP ≤ 30%
NOT ACCEPTABLE	RP > 30%

Gross alpha

MAPEP-24-GrF50

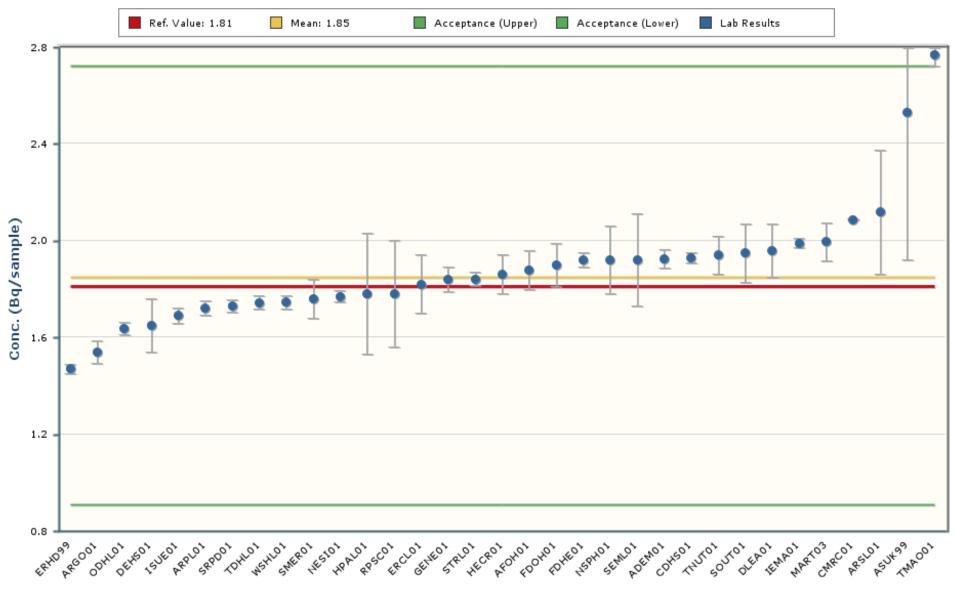


Notes:

The chart shows only data points with values between -0.79 and 3.23 (\pm 5 Standard Deviations).

Gross beta

MAPEP-24-GrF50

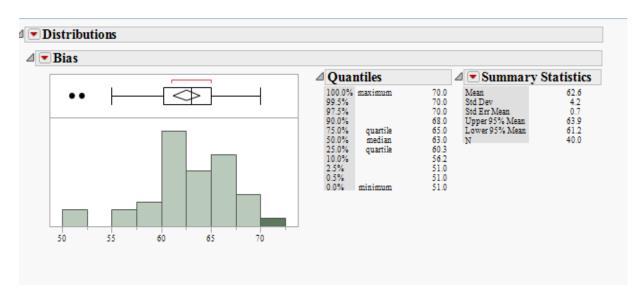


Lab Code

Notes:

The chart shows only data points with values between 0.90 and 2.81 (± 5 Standard Deviations).

The intent of the distribution graphs contained within this report is to graphically demonstrate to users how % Bias data within the current MAPEP Series appears when examined by matrix, by analyte, by method of sample preparation or by method of detection. Biases greater than +/- 100% have been screened from the data. The box plot of the bias data points and the mean visually illustrate the breadth of the distribution and where potential outliers in the distribution might lie. The statistics for the distribution plot are provided adjacent to the Bias plot. In some cases, N becomes very small and thus developed statistics may not accurately reflect estimates of the population if N were a significantly larger value.

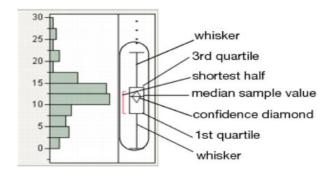


Outlier Box Plot

The BLACK small vertical line inside the small rectangle at the top of the data distribution graph is the median of the population of the bias shown for that analyte in the matrix. The confidence diamond contains the mean and the upper and lower 95% of the mean. If you drew a line through the middle of the diamond, you would have the mean. The top and bottom points of the diamond represent the upper and lower 95% of the mean. The ends of the box represent the 25th and 75th quantiles, also expressed as 1st and 3rd quartile. The difference between the 1st and 3rd quartiles is called the interquartile range. Each box has lines that extend from each end, sometimes called whiskers. The whiskers extend from the ends of the box to the outermost data point that falls within the distances computed as follows:

3rd quartile + 1.5*(interquartile range)

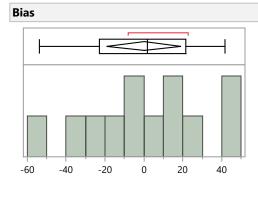
1st quartile - 1.5*(interquartile range)



If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

GrF50 Distribution by Detection Method

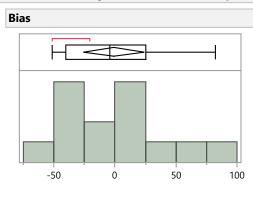
Distributions Analyte_Detection=Gross alpha Gas Flow Proportional Counter



Quantiles					
100.0%	maximum	41.9			
99.5%		41.9			
97.5%		41.9			
90.0%		41.7			
75.0%	quartile	21.5			
50.0%	median	1.8			
25.0%	quartile	-22.8			
10.0%		-49.1			
2.5%		-53.8			
0.5%		-53.8			
0.0%	minimum	-53.8			

Summary Stat	istics
Mean	-0.0
Std Dev	30.1
Std Err Mean	8.7
Upper 95% Mean	19.1
Lower 95% Mean	-19.1
N	12.0

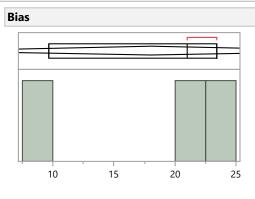
Distributions Analyte_Detection=Gross alpha Gross Alpha/Beta - 2 pi gas flow proportional counter



Quantiles		
100.0%	maximum	82.3
99.5%		82.3
97.5%		82.3
90.0%		73.6
75.0%	quartile	25.0
50.0%	median	-4.0
25.0%	quartile	-40.3
10.0%		-48.8
2.5%		-51.6
0.5%		-51.6
0.0%	minimum	-51.6

Summary Statistics	
Mean	-0.9
Std Dev	43.1
Std Err Mean	11.5
Upper 95% Mean	24.0
Lower 95% Mean	-25.8
N	14.0

Distributions Analyte_Detection=Gross alpha Liquid Scintillation Counter

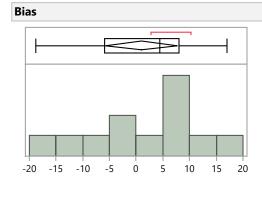


Quantiles		
100.0%	maximum	23.4
99.5%		23.4
97.5%		23.4
90.0%		23.4
75.0%	quartile	23.4
50.0%	median	21.0
25.0%	quartile	9.7
10.0%		9.7
2.5%		9.7
0.5%		9.7
0.0%	minimum	9.7

18.0
7.3
4.2
36.2
-0.1
3.0
5.0

GrF50 Distribution by Detection Method

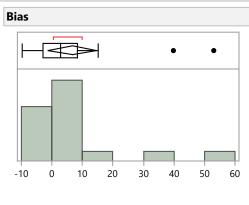
Distributions Analyte_Detection=Gross beta Gas Flow Proportional Counter



Quant	iles	
100.0%	maximum	17.0
99.5%		17.0
97.5%		17.0
90.0%		15.0
75.0%	quartile	8.0
50.0%	median	4.5
25.0%	quartile	-5.9
10.0%		-17.6
2.5%		-18.8
0.5%		-18.8
0.0%	minimum	-18.8

Summary Statistics		
Mean	1.0	
Std Dev	10.5	
Std Err Mean	3.0	
Upper 95% Mean	7.7	
Lower 95% Mean	-5.7	
N	12.0	

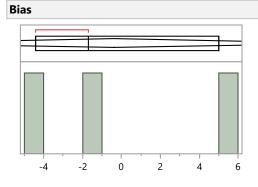
Distributions Analyte_Detection=Gross beta Gross Alpha/Beta - 2 pi gas flow proportional counter



Quant	iles	
100.0%	maximum	53.0
99.5%		53.0
97.5%		53.0
90.0%		41.1
75.0%	quartile	8.3
50.0%	median	2.8
25.0%	quartile	-3.0
10.0%		-8.9
2.5%		-9.6
0.5%		-9.6
0.0%	minimum	-9.6

Summary Statistics	
Mean	6.7
Std Dev	16.0
Std Err Mean	3.8
Upper 95% Mean	14.7
Lower 95% Mean	-1.2
N	18.0

Distributions Analyte_Detection=Gross beta Liquid Scintillation Counter

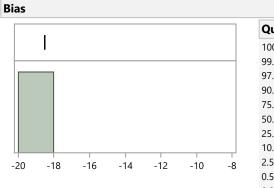


Quant	iles	
100.0%	maximum	5.0
99.5%		5.0
97.5%		5.0
90.0%		5.0
75.0%	quartile	5.0
50.0%	median	-1.7
25.0%	quartile	-4.4
10.0%		-4.4
2.5%		-4.4
0.5%		-4.4
0.0%	minimum	-4.4

Mean	-0.4
Std Dev	4.8
Std Err Mean	2.8
Upper 95% Mean	11.7
Lower 95% Mean	-12.4
N	3.0

GrF50 Distribution by Preparation Method

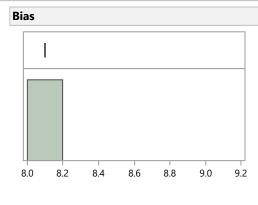
Distributions Analyte_Method=Gross alpha Acid dissolution with hydrofluoric acid



Quantiles		
100.0%	maximum	-18.5
99.5%		-18.5
97.5%		-18.5
90.0%		-18.5
75.0%	quartile	-18.5
50.0%	median	-18.5
25.0%	quartile	-18.5
10.0%		-18.5
2.5%		-18.5
0.5%		-18.5
0.0%	minimum	-18.5

Mean	-18.5
Std Dev	
Std Err Mean	
Upper 95% Mean	
Lower 95% Mean	
N	1.0

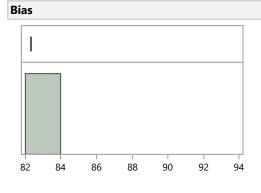
Distributions Analyte_Method=Gross alpha Coprecipitation, acidified



Quant	iles	
100.0%	maximum	8.1
99.5%		8.1
97.5%		8.1
90.0%		8.1
75.0%	quartile	8.1
50.0%	median	8.1
25.0%	quartile	8.1
10.0%		8.1
2.5%		8.1
0.5%		8.1
0.0%	minimum	8.1

Summary Stat	istics
Mean	8.1
Std Dev	
Std Err Mean	
Upper 95% Mean	
Lower 95% Mean	
N	1.0

Distributions Analyte_Method=Gross alpha Evaporation, straight

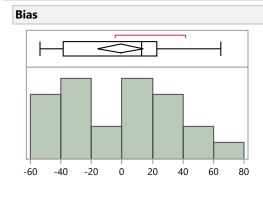


Quant	iles	
100.0%	maximum	82.3
99.5%		82.3
97.5%		82.3
90.0%		82.3
75.0%	quartile	82.3
50.0%	median	82.3
25.0%	quartile	82.3
10.0%		82.3
2.5%		82.3
0.5%		82.3
0.0%	minimum	82.3

Summary Statistics	
Mean	82.3
Std Dev	
Std Err Mean	
Upper 95% Mean	
Lower 95% Mean	
N	1.0

GrF50 Distribution by Preparation Method

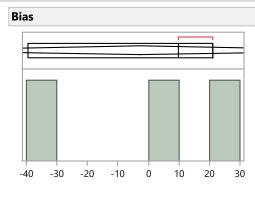
Distributions Analyte_Method=Gross alpha No preparation - analyzed as received



Quant	iles	
100.0%	maximum	64.8
99.5%		64.8
97.5%		64.8
90.0%		41.6
75.0%	quartile	22.6
50.0%	median	12.8
25.0%	quartile	-38.2
10.0%		-49.4
2.5%		-53.8
0.5%		-53.8
0.0%	minimum	-53.8

Summary Statistics	
Mean	-1.0
Std Dev	34.3
Std Err Mean	7.2
Upper 95% Mean	13.9
Lower 95% Mean	-15.8
N	23.0

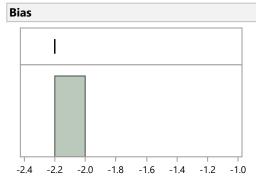
Distributions Analyte_Method=Gross alpha Other



Quant	iles	
100.0%	maximum	21.0
99.5%		21.0
97.5%		21.0
90.0%		21.0
75.0%	quartile	21.0
50.0%	median	9.7
25.0%	quartile	-39.4
10.0%		-39.4
2.5%		-39.4
0.5%		-39.4
0.0%	minimum	-39.4

Summary Stat	istics
Mean	-2.9
Std Dev	32.1
Std Err Mean	18.5
Upper 95% Mean	76.9
Lower 95% Mean	-82.7
N	3.0

Distributions Analyte_Method=Gross beta Acid dissolution with hydrofluoric acid



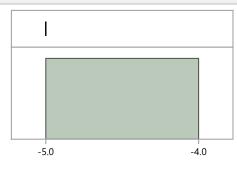
Quant	iles		
100.0%	maximum	-2.2	
99.5%		-2.2	
97.5%		-2.2	
90.0%		-2.2	
75.0%	quartile	-2.2	
50.0%	median	-2.2	
25.0%	quartile	-2.2	
10.0%		-2.2	
2.5%		-2.2	
0.5%		-2.2	
0.0%	minimum	-2.2	

Summary Stat	istics
Mean	-2.2
Std Dev	
Std Err Mean	
Upper 95% Mean	
Lower 95% Mean	
N	1.0

GrF50 Distribution by Preparation Method

Distributions Analyte_Method=Gross beta Evaporation, straight

Bias

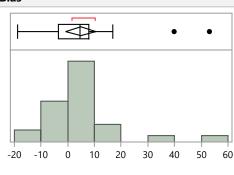


100.0% maximum -5.1 99.5% -5.1 97.5% -5.1 90.0% -5.1 75.0% quartile -5.1 50.0% median -5.1 25.0% quartile -5.1	
97.5% -5.1 90.0% -5.1 75.0% quartile -5.1 50.0% median -5.1 25.0% quartile -5.1)
90.0% -5.1 75.0% quartile -5.1 50.0% median -5.1 25.0% quartile -5.1)
75.0% quartile -5.1 50.0% median -5.1 25.0% quartile -5.1)
50.0% median -5.0 25.0% quartile -5.0)
25.0% quartile -5.)
)
10.0% -5.)
)
2.5% -5.)
0.5%)
0.0% minimum -5.)

Summary Statistics		
Mean	-5.0	
Std Dev		
Std Err Mean		
Upper 95% Mean		
Lower 95% Mean		
N	1.0	

Distributions Analyte_Method=Gross beta No preparation - analyzed as received

Bias

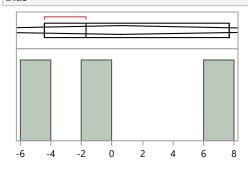


Quantiles				
100.0%	maximum	53.0		
99.5%		53.0		
97.5%		53.0		
90.0%		19.3		
75.0%	quartile	8.0		
50.0%	median	4.5		
25.0%	quartile	-3.4		
10.0%		-10.1		
2.5%		-18.8		
0.5%		-18.8		
0.0%	minimum	-18.8		

Summary Statistics		
Mean	4.9	
Std Dev	14.5	
Std Err Mean	2.7	
Upper 95% Mean	10.5	
Lower 95% Mean	-0.7	
N	28.0	

Distributions Analyte_Method=Gross beta Other

Bias



Quantiles				
100.0%	maximum	7.7		
99.5%		7.7		
97.5%		7.7		
90.0%		7.7		
75.0%	quartile	7.7		
50.0%	median	-1.7		
25.0%	quartile	-4.4		
10.0%		-4.4		
2.5%		-4.4		
0.5%		-4.4		
0.0%	minimum	-4.4		

Summary Statistics				
Mean	0.5			
Std Dev	6.4			
Std Err Mean	3.7			
Upper 95% Mean	16.3			
Lower 95% Mean	-15.2			
N	3.0			