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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.
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- 4. The obligations and requirements described herein shall survive the expiration or termination of any agreement or contract between RESL and Customer.

GrW52 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ADEM01	Alabama Department of Environmental Management	GrW
AFOH01	USAFSAM/OEA	GrW
ARGO01	Idaho National Laboratory	GrW
AY1201	Consolidated Nuclear Security, LLC, ACO Laboratory	GrW
CDHS01	California Department of Public Health	GrW
CESL01	Lawrence Livermore National Laboratory - EMRL	GrW
DEHS01	Department of Environmental Health & Safety	GrW
DLEA01	DLE Associates	GrW
ELIW01	Energy Laboratories, Inc.	GrW
ERCL01	Washington State Public Health Laboratories	GrW
ERHD99	National Monitoring Section, Radiation Protection Bureau, Health Canada	GrW
FDHE01	Florida Dept of Health Environmental Laboratory	GrW
GENE01	GEL Laboratories, LLC	GrW
GPCL01	Georgia Power Company Environmental Laboratory	GrW
HCAL01	Lawrence Livermore National Laboratory	GrW
HECR01	SC Department of Environmental Services	GrW
HPAC99	UKHSA, RCE Glasgow	GrW
IEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	GrW
LZCA01	ACZ Laboratories, Inc	GrW
MART03	Radioactive Material Analysis Laboratory	GrW
MNDH01	Minnesota Department of Health, Public Health Lab. Division	GrW
NARL01	National Analytical Radiation Environmental Laboratory	GrW
NESI01	BWXT-Radioisotope & Analytical Chemistry Laboratory	GrW
NJDH01	New Jersey Dept. of Health, ECLS	GrW
NRLL99	Environmental Radioactivity - National Centre for Radiation Science	GrW
NSPH01	Nevada State Public Health Laboratory	GrW
ODHL01	Ohio Department of Health Laboratory	GrW
RPSC01	Radiation Protection Service	GrW
SEML01	SRS Environmental Monitoring Laboratory	GrW
SOUT01	Southwest Research Institute	GrW
TDHL01	Texas Department of State Health Services Laboratory	GrW
TMAO01	EBERLINE Analytical Corporation	GrW
TNUT01	St. Louis USACE FUSRAP Laboratory	GrW
WSHL01	Wisconsin State Laboratory of Hygiene	GrW
WSTP99	Cavendish Nuclear Limited	GrW

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ARPL01	Analytical Support Operations - Radiochemical Processing Lab	GrW
ARSL01	ARS	GrW
ASUK99	AWE (Aldermaston)	GrW
ISUE01	ISU Environmental Monitoring Laboratory	GrW
STRL01	South Texas Project Radiological Laboratory	GrW
TELE02	Microbac Laboratories Inc Northbrook	GrW

Study Reference Values

MAPEP-25-GrW52: Gross alpha/beta water Radiological Reference Date: 02/01/2025

Radiological		Units: (Bq/L)
Analyte	Reference Value	Reference Uncertainty
Gross alpha	0.411	0.008
Gross beta	3.03	0.04

Sample Statistical Summary

MAPEP-25-GrW52: Gross alpha/beta water Radiological Reference Date: 02/01/2025

Radiological							Units: (Bq/L)
Analyte	T(1)	A (2)	Grand ⁽³⁾ Mean	Standard Deviation	Reference Value	Reference Uncertainty	Acceptance Range
Gross alpha	35	28	0.433	0.103	0.411	0.008	0.123 - 0.699
Gross beta	35	34	2.98	0.43	3.03	0.04	1.52 - 4.55

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 $\le \pm 70\%$ 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 <= 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 $\le \pm 50\%$ 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 $\ge \pm 50\%$ 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:

Flag Summary Report

MAPEP-25-GrW52: Gross alpha/beta water Radiological Reference Date: 02/01/2025

Radiological				
Analyte	A	W	RW	N
Gross alpha	28			7
Gross beta	34			1



Laboratory Results For MAPEP Series 52 (ADEM01) Alabama Department of Environmental Management 1350 Coliseum Blvd.

Montgomery, AL 36110

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.4736	0.411	Α		15.2	0.123 - 0.699	0.14652	N
Gross beta	4.292	3.03	Α		41.7	1.52 - 4.55	0.15355	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 <= 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 $\le \pm 50\%$ 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 <= 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 Series 52 (AFOH01) USAFSAM/OEA 2510 Fifth Street, Area B Wright-Patterson AFB, OH 45433-7913

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.5	0.411	Α		21.7	0.123 - 0.699	0.08	W
Gross beta	2.88	3.03	Α		- 5.0	1.52 - 4.55	0.14	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (ARGO01) Idaho National Laboratory INL, Materials and Fuels Complex Idaho Falls, ID 83415

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.489	0.411	Α		19.0	0.123 - 0.699	0.042	Α
Gross beta	2.42	3.03	Α		-20.1	1.52 - 4.55	0.068	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (AY1201) Consolidated Nuclear Security, LLC, ACO Laboratory Y12, NSC, Bldg. 9995, Rm 142 Oak Ridge, TN 37831-8189

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.500	0.411	Α		21.7	0.123 - 0.699	0.087	W
Gross beta	2.76	3.03	Α		-8.9	1.52 - 4.55	0.15	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (CDHS01) California Department of Public Health Drinking Water & Radiation Lab. Richmond, CA 94804-6403

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.487	0.411	Α		18.5	0.123 - 0.699	0.0581	Α
Gross beta	3.53	3.03	Α		16.5	1.52 - 4.55	0.193	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 ≤ 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 Series 52 (CESL01) Lawrence Livermore National Laboratory - EMRL 7000 East Avenue
Livermore, CA 94551

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	7.59E-01	0.411	N		84.7	0.123 - 0.699	1.45E-01	W
Gross beta	3.01E+00	3.03	Α		-0.7	1.52 - 4.55	1.27E-01	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (DEHS01) Department of Environmental Health & Safety North Carolina State Univ. Raleigh, NC 27695-8007

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	1.64	0.411	N		299.0	0.123 - 0.699	0.56	N
Gross beta	2.54	3.03	Α		-16.2	1.52 - 4.55	0.40	W

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (DLEA01) DLE Associates 730 Alfred Nobel Drive Hercules, CA 94547

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.81	0.411	N		97.1	0.123 - 0.699	0.09	Α
Gross beta	3.43	3.03	Α		13.2	1.52 - 4.55	0.26	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (ELIW01) Energy Laboratories, Inc. 2393 Salt Creek HWY Casper, Wy 82601

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.3774	0.411	Α		-8.2	0.123 - 0.699	0.0592	W
Gross beta	2.601	3.03	Α		-14.2	1.52 - 4.55	0.0981	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (ERCL01) Washington State Public Health Laboratories 1610 N.E. 150th Street Shoreline, WA 98155-9701

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.422	0.411	Α		2.7	0.123 - 0.699	0.043	Α
Gross beta	3.26	3.03	Α		7.6	1.52 - 4.55	0.14	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (ERHD99) National Monitoring Section, Radiation Protection Bureau, Health Canada 775 Brookfield Road AL6302D1 Ottawa, Ontario K1A 1C1

Radiological							Units:	: (Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.330	0.411	Α		-19.7	0.123 - 0.699	0.063	W
Gross beta	3.122	3.03	Α		3.0	1.52 - 4.55	0.750	W

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (FDHE01) Florida Dept of Health Environmental Laboratory 2100 All Childrens Way Orlando, FL 32818-5271

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.31	0.411	Α		-24.6	0.123 - 0.699	0.16	N
Gross beta	3.1	3.03	Α		2.3	1.52 - 4.55	0.25	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (GENE01) GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.365	0.411	Α		-11.2	0.123 - 0.699	0.0659	W
Gross beta	2.98	3.03	Α		-1.7	1.52 - 4.55	0.269	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (GPCL01) Georgia Power Company Environmental Laboratory 2480 Maner Road Atlanta, GA 30339

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.38	0.411	Α		-7.5	0.123 - 0.699	0.19	N
Gross beta	3.39	3.03	Α		11.9	1.52 - 4.55	0.64	W

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (HCAL01) Lawrence Livermore National Laboratory Analytical Services and Instrumentation Analytical Lab Livermore, CA 94550

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.31	0.411	Α		-24.6	0.123 - 0.699	0.06	W
Gross beta	3.01	3.03	Α		-0.7	1.52 - 4.55	0.20	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 WITH WARNING......15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%



Laboratory Results For MAPEP Series 52 (HECR01) SC Department of Environmental Services 8231 Parklane Road Columbia, SC 29223

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.662	0.411	Α		61.1	0.123 - 0.699	0.224	N
Gross beta	3.05	3.03	Α		0.7	1.52 - 4.55	0.189	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (HPAC99) UKHSA, RCE Glasgow 155 Hardgate Road Glasgow, Scotland G51 4LS

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.425	0.411	Α		3.4	0.123 - 0.699	.055	Α
Gross beta	1.844	3.03	Α		-39.1	1.52 - 4.55	.083	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (IEMA01) Illinois Emergency Management Agency Radiochemistry Laboratory 1301 Knotts St.
Springfield, IL 62703

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.301	0.411	Α		-26.8	0.123 - 0.699	0.107	N
Gross beta	2.96	3.03	Α		-2.3	1.52 - 4.55	0.086	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (LZCA01) ACZ Laboratories, Inc 2773 Downhill Drive Steamboat Springs, CO 80487

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.374	0.411	Α		-9.0	0.123 - 0.699	0.146	N
Gross beta	3.00	3.03	Α		-1.0	1.52 - 4.55	0.185	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (MART03) Radioactive Material Analysis Laboratory ORNL Oak Ridge, TN 37830

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.92	0.411	N		123.8	0.123 - 0.699	0.12	Α
Gross beta	3.65	3.03	Α		20.5	1.52 - 4.55	0.20	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (MNDH01) Minnesota Department of Health, Public Health Lab. Division 601 Robert St. N. St. Paul, MN 55155

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.79	0.411	N		92.2	0.123 - 0.699	0.112	Α
Gross beta	2.76	3.03	Α		-8.9	1.52 - 4.55	0.08	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (NARL01) National Analytical Radiation Environmental Laboratory 540 S. Morris Ave.

Montgomery, AL 36115-2601

Radiological							Units:	: (Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.658	0.411	Α		60.1	0.123 - 0.699	0.138	W
Gross beta	3.22	3.03	Α		6.3	1.52 - 4.55	0.201	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (NESI01) BWXT-Radioisotope & Analytical Chemistry Laboratory Lynchburg Technology Center Lynchburg, VA 24504-5447

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.367	0.411	Α		-10.7	0.123 - 0.699	0.029	Α
Gross beta	2.92	3.03	Α		-3.6	1.52 - 4.55	0.048	N

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 WITH WARNING......15% < RP <= 30%

NOT ACCEPTABLE.....RP > 30%



Laboratory Results For MAPEP Series 52 (NJDH01) New Jersey Dept. of Health, ECLS 3 Schwarzkopf Drive Ewing, NJ 08628

Radiological							Units	: (Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.61	0.411	Α		48.4	0.123 - 0.699	0.11	W
Gross beta	2.97	3.03	Α		-2.0	1.52 - 4.55	0.18	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (NRLL99) Environmental Radioactivity - National Centre for Radiation Science $PO\ Box\ 29181$

Christchurch, Christchurch 8540

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.483	0.411	Α		17.5	0.123 - 0.699	0.021	Α
Gross beta	3.16	3.03	Α		4.3	1.52 - 4.55	0.13	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (NSPH01) Nevada State Public Health Laboratory 1664 North Virginia Street, MS 328 Reno, NV 89557

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.907	0.411	N		120.7	0.123 - 0.699	0.057	Α
Gross beta	16.1	3.03	N		431.4	1.52 - 4.55	0.179	N

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (ODHL01) Ohio Department of Health Laboratory 8995 E Main Street Reynoldsburg, OH 43068

Radiological							Units	: (Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.26	0.411	Α		-36.7	0.123 - 0.699	0.05	W
Gross beta	2.83	3.03	Α		-6.6	1.52 - 4.55	0.17	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (RPSC01) Radiation Protection Service

O. Ministry of Labour, Immigration, Training & Skills Developmen

Mississauga, Ontario L4V 1W8

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.36	0.411	Α		-12.4	0.123 - 0.699	0.15	N
Gross beta	2.17	3.03	Α		-28.4	1.52 - 4.55	0.70	N

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (SEML01) SRS Environmental Monitoring Laboratory Bldg 735-B
Aiken, SC 29808

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.426	0.411	Α		3.7	0.123 - 0.699	0.071	W
Gross beta	3.25	3.03	Α		7.3	1.52 - 4.55	0.15	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 <= 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 Series 52 (SOUT01) Southwest Research Institute 6220 Culebra Rd.
San Antonio, TX 78238-5166

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.470	0.411	Α		14.4	0.123 - 0.699	0.0707	W
Gross beta	2.94	3.03	Α		-3.0	1.52 - 4.55	0.202	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (TDHL01) Texas Department of State Health Services Laboratory 1100 W 49th Street
Austin, TX 78756

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.410	0.411	Α		-0.2	0.123 - 0.699	0.046	Α
Gross beta	2.829	3.03	Α		-6.6	1.52 - 4.55	0.048	N

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (TMAO01) EBERLINE Analytical Corporation 601 A SCARBORO RD OAK RIDGE, TN 37830-

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.71	0.411	N		72.7	0.123 - 0.699	0.146	W
Gross beta	2.90	3.03	Α		-4.3	1.52 - 4.55	0.14	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (TNUT01) St. Louis USACE FUSRAP Laboratory 112 James S McDonnell Blvd HAZELWOOD, MO 63042

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.5010	0.411	Α		21.9	0.123 - 0.699	0.1180	W
Gross beta	2.53	3.03	Α		-16.5	1.52 - 4.55	0.290	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (WSHL01) Wisconsin State Laboratory of Hygiene 2601 Agriculture Drive Madison, WI 53718

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.518	0.411	Α		26.0	0.123 - 0.699	0.0518	Α
Gross beta	3.0525	3.03	Α		0.7	1.52 - 4.55	0.0695	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 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 Series 52 (WSTP99) Cavendish Nuclear Limited Greeson Court
Cumbria, UK CA24 3HZ

Radiological							Units:	(Bq/L)
		Ref			Bias	Acceptance	Unc	Unc
Analyte	Result	Value	Flag	Notes	(%)	Range	Value	Flag
Gross alpha	0.365	0.411	Α		-11.2	0.123 - 0.699	0.063	W
Gross beta	3.00	3.03	Α		-1.0	1.52 - 4.55	0.27	Α

Radiological Reference Date: February 1, 2025

Gross Alpha Flags:

A = Result acceptable, Bias $\le \pm 70\%$ 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 ≤ 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 $\le \pm 50\%$ 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 <= 2, i.e., the range encompassing the result, plus or minus the total uncertainty at two standard deviations, includes zero).

Uncertainty Flags:

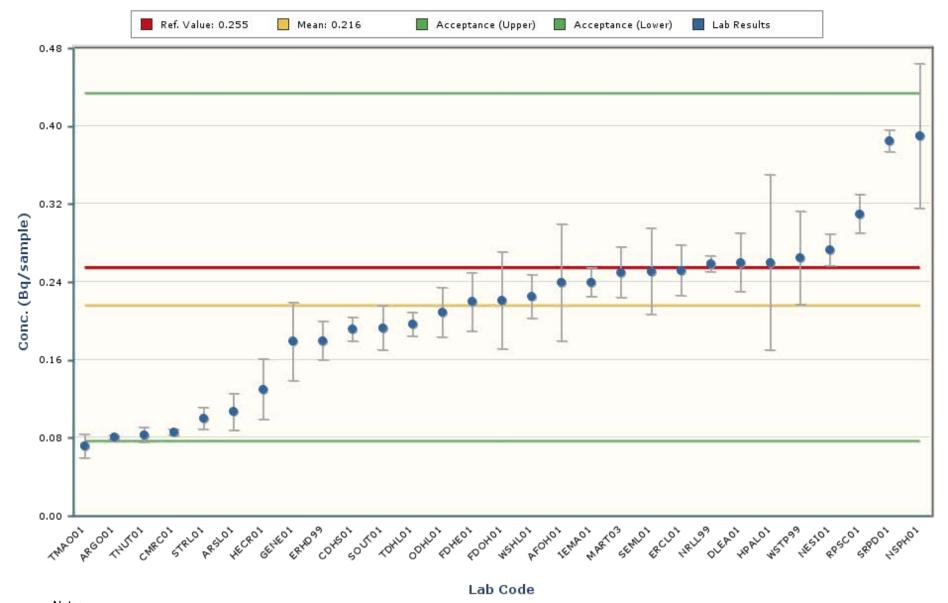
NOT ACCEPTABLE.....RP < 2%

ACCEPTABLE......2% <= RP <= 15%

ACCEPTABLE WITH WARNING.......15% < RP <= 30%

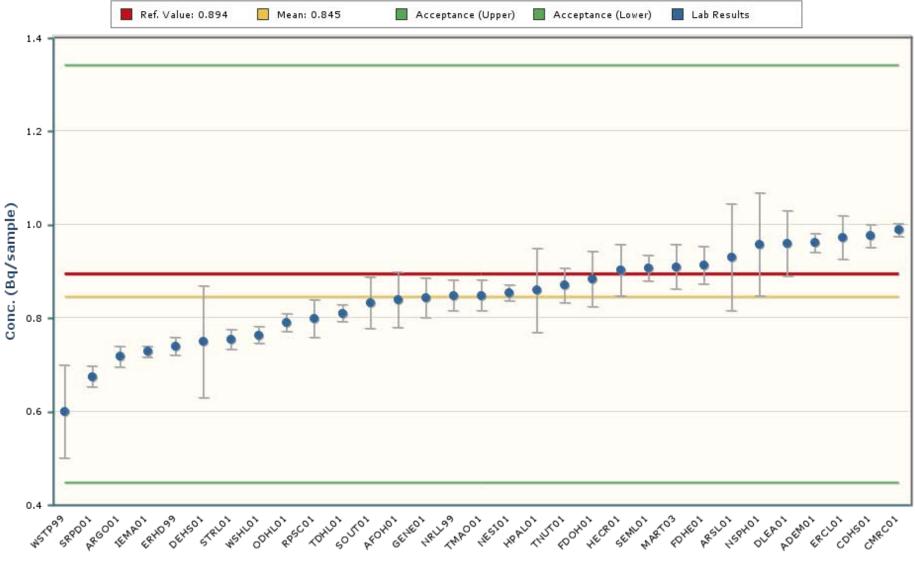
NOT ACCEPTABLE.....RP > 30%

Gross alpha MAPEP-25-GrW52



Notes: The chart shows only data points with values between -0.080 and 0.946 (± 5 Standard Deviations).

Gross betaMAPEP-25-GrW52

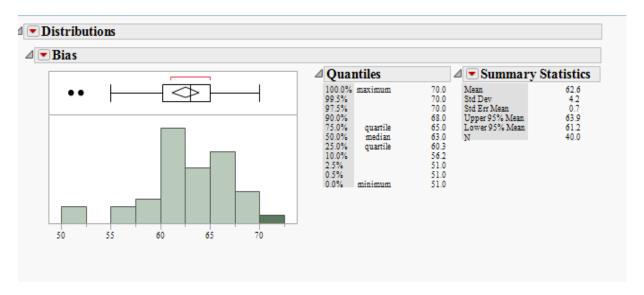


Lab Code

Notes:

The chart shows only data points with values between 0.83 and 5.13 (± 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.

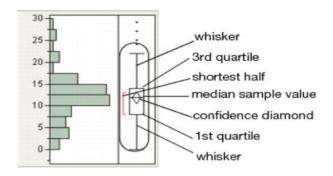


Outlier Box Plot

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)

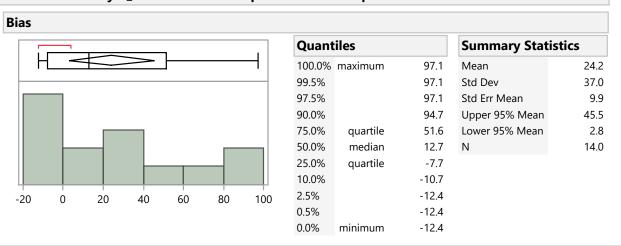
1st quartile - 1.5*(interquartile range)



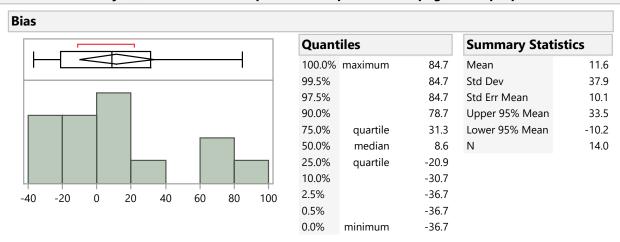
If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

GrW52 Distribution by Detection Method

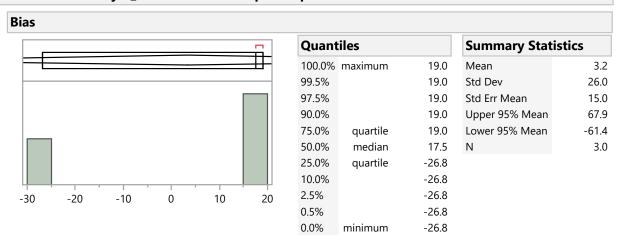
Distributions Analyte_Detection=Gross alpha Gas Flow Proportional Counter



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

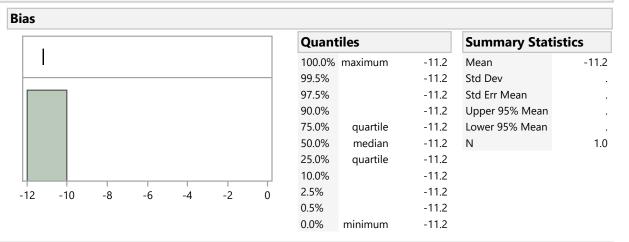


Distributions Analyte_Detection=Gross alpha Liquid Scintillation Counter

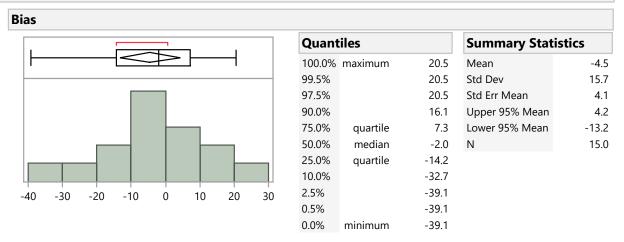


GrW52 Distribution by Detection Method

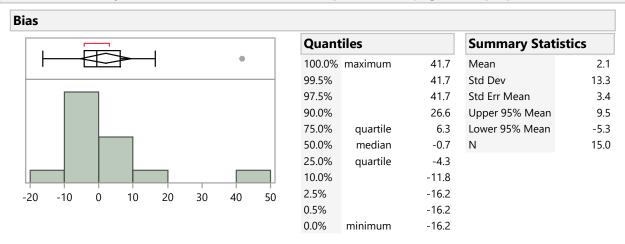
Distributions Analyte_Detection=Gross alpha Other



Distributions Analyte_Detection=Gross beta Gas Flow Proportional Counter

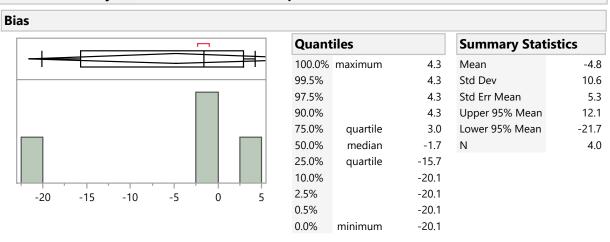


Distributions Analyte_Detection=Gross beta Gross Alpha/Beta - 2 pi gas flow proportional counter

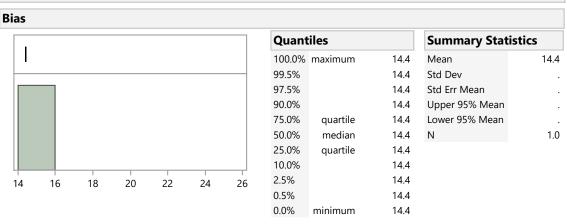


GrW52 Distribution by Detection Method

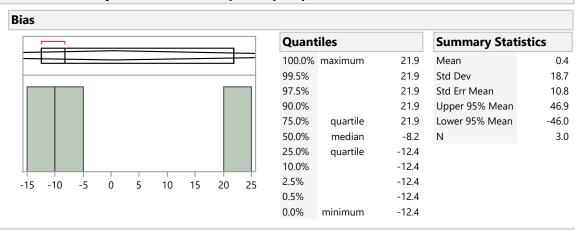
Distributions Analyte_Detection=Gross beta Liquid Scintillation Counter



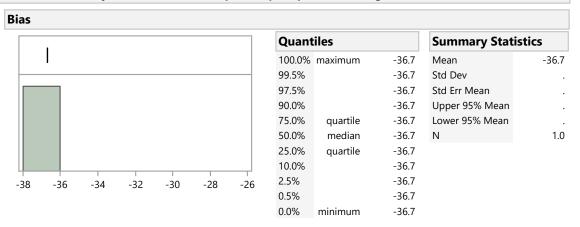
Distributions Analyte_Method=Gross alpha Acid dissolution with hydrofluoric acid



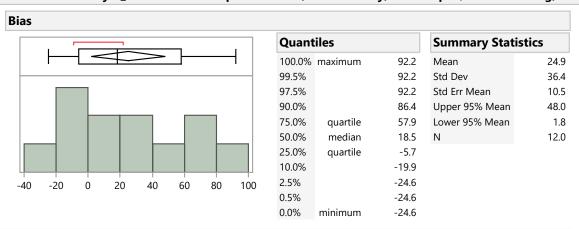
Distributions Analyte_Method=Gross alpha Coprecipitation, acidified



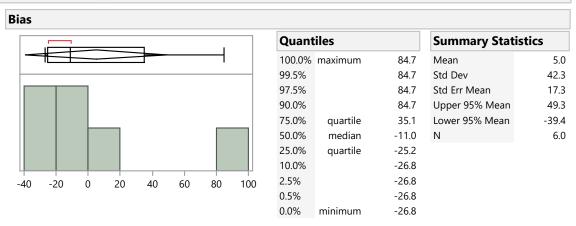
Distributions Analyte_Method=Gross alpha Coprecipitation, straight



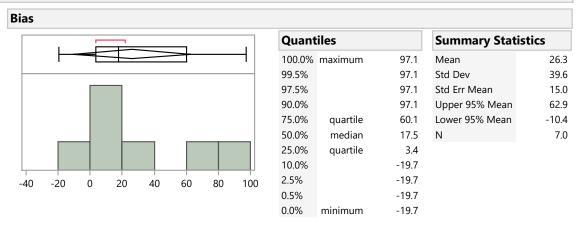
Distributions Analyte_Method=Gross alpha EPA 900, Radioactivity, Gross Alpha/Beta Screening, 600/4-80-032



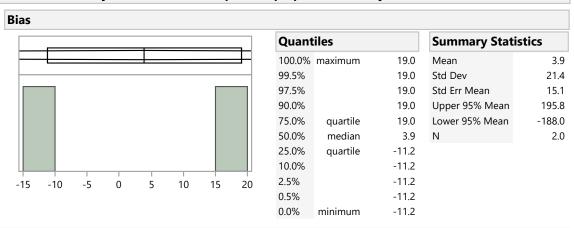
Distributions Analyte_Method=Gross alpha Evaporation, acidified



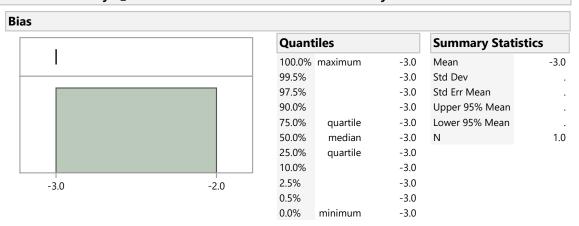
Distributions Analyte_Method=Gross alpha Evaporation, straight



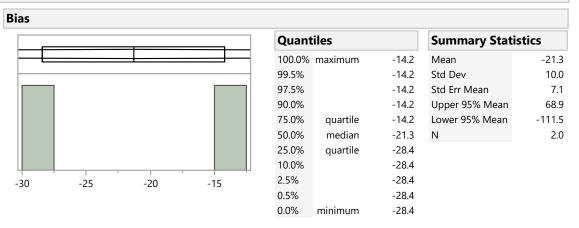
Distributions Analyte_Method=Gross alpha No preparation - analyzed as received



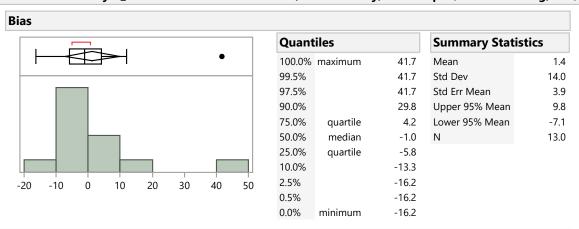
Distributions Analyte_Method=Gross beta Acid dissolution with hydrofluoric acid



Distributions Analyte_Method=Gross beta Coprecipitation, acidified



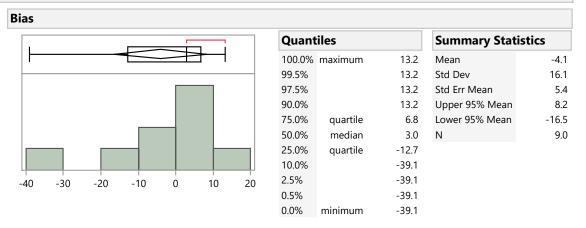
Distributions Analyte_Method=Gross beta EPA 900, Radioactivity, Gross Alpha/Beta Screening, 600/4-80-032



Distributions Analyte_Method=Gross beta Evaporation, acidified

Bias **Quantiles Summary Statistics** 100.0% maximum 20.5 4.4 Mean 99.5% 20.5 Std Dev 9.8 97.5% 20.5 Std Err Mean 3.7 90.0% 20.5 Upper 95% Mean 13.5 75.0% 16.5 Lower 95% Mean -4.7 quartile 50.0% median -0.7 7.0 -2.3 25.0% quartile 10.0% -3.6 2.5% -3.6 -5 0 5 10 15 20 0.5% -3.6 0.0% minimum -3.6

Distributions Analyte_Method=Gross beta Evaporation, straight



Distributions Analyte_Method=Gross beta No preparation - analyzed as received

