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- 1. Because products, technical data, and technical assistance (i.e., services) provided to Customer by RESL may be subject to U.S. export control laws and regulations, (i) transactions with certain persons and companies and (ii) the export or reexport of certain types and levels of products, technical data, and services are prohibited or restricted.
- 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.

GrW42 Participating Laboratories

Lab Code	Lab Name	Matrix Code
ADFC99	Abu Dhabi Quality and Conformity Council-Central Testing Lab	GrW
AFOH01	USAFSAM/OEA	GrW
ARGO01	Idaho National Laboratory	GrW
ARSL01	ARS Aleut Analytical, LLC	GrW
AY1201	Consolidated Nuclear Security, LLC, ACO Laboratory	GrW
CESL01	Lawrence Livermore National Laboratory - EMRL	GrW
DEHS01	Department of Environmental Health & Safety	GrW
DINL99	Departamento Ingeniería Nuclear y Mecánica de Fluidos	GrW
DLEA01	DLE Associates	GrW
ELIW01	Energy Laboratories, Inc.	GrW
ERCL01	Washington State Public Health Laboratories	GrW
ERHD99	Radiation Protection Bureau Health Canada RSD NMS	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 Dept. Health and Environmental Control Radiological Laboratory	GrW
IEMA01	Illinois Emergency Management Agency Radiochemistry Laboratory	GrW
ISUE01	ISU Environmental Monitoring Laboratory	GrW
LZCA01	ACZ Laboratories, Inc	GrW
MART03	Radioactive Material Analysis Laboratory	GrW
MNDH01	Minnesota Department of Health, Public Health Lab. Division	GrW
NESI01	BWXT-Radioisotope & Analytical Chemistry Laboratory	GrW
ODHL01	Ohio Department of Health Laboratory	GrW
ORIS01	ORISE/IEAV	GrW
SEML01	SRS Environmental Monitoring Laboratory	GrW
SOUT01	Southwest Research Institute	GrW
SRPD01	Sandia National Laboratories, Radiation Protection Sample Diagnostics	GrW
TDHL01	Texas Department of State Health Services Laboratory	GrW
TELE02	ATI Environmental, Inc., Midwest Lab	GrW
TMAO01	EBERLINE SERVICES OAK RIDGE LABORATORY	GrW
TNUT01	St. Louis USACE FUSRAP Laboratory	GrW
WEST04	PACE ANALYTICAL SERVICES, PITTSBURGH	GrW
WSHL01	Wisconsin State Laboratory of Hygiene	GrW

Laboratories Not Reporting

Lab Code	Lab Name	Matrix Code
ADEM01	Alabama Department of Environmental Management	GrW
ETTP01	MCLinc	GrW
ISUP01	ISU - Department of Physics/Health Physics/EAL	GrW
LAWR01	LAWRENCE BERKELEY NATIONAL LABORATORY	GrW
NARL01	National Analytical Radiation Environmental Laboratory	GrW
NJDH01	New Jersey Dept. of Health, PHEL, ECLS	GrW
RPSC01	Radiation Protection Service	GrW



Study Reference Values

MAPEP-20-GrW42

Radiological Reference Date: 02/01/2020

Analyte	Ref Value	Ref Unc
Radiological		Units: (Bq/L)
Gross alpha	1.03	0.03
Gross beta	4.24	0.13



Sample Statistical Summary

MAPEP-20-GrW42

Radiological Reference Date: 02/01/2020

Analyte	T(1)	A(2)	Grand(3) Mean		Ref Value		Acceptance Range
Radiological	·						Units: (Bq/L)
Gross alpha	34	31	1.01	0.22	1.03	0.03	0.31 - 1.75
Gross beta	34	33	4.15	0.55	4.24	0.13	2.12 - 6.36

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 <= +/- 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 > +/- 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 > +/- 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%< td=""></rp<=30%<>
NOT ACCEPTABLE	RP>30%
RP = Relative Precision	



Flag Summary Report

MAPEP-20-GrW42

Radiological				
Analyte	A	W	RW	N
Gross alpha	31			3
Gross beta	33			1



Laboratory Results For MAPEP-20-GrW42 (ADFC99) Abu Dhabi Quality and Conformity Council-Central Testing Lab Radiation Lab Abu Dhabi, - -

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.69	1.03 A	-33.0	0.31 - 1.75	0.16 W
Gross beta	4.11	4.24 A	-3.1	2.12 - 6.36	0.18 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.07 1.03 A	3.9	0.31 - 1.75	0.15 A
Gross beta	4.27 4.24 A	0.7	2.12 - 6.36	0.13 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.12 1.03 A	8.7	0.31 - 1.75	0.08 A
Gross beta	4.63 4.24 A	9.2	2.12 - 6.36	0.15 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (ARSL01) ARS Aleut Analytical, LLC 2609 North River Road Port Allen, LA 70767

Radiological					Units: (Bq/L)
	Re	f	Bias	Acceptance	Unc Unc
Analyte	Result Valu	ie Flag Notes	(%)	Range	Value Flag
Gross alpha	1.147	1.03 A	11.4	0.31 - 1.75	.145 A
Gross beta	3.961	4.24 A	-6.6	2.12 - 6.36	.473 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	0.98 1.03 A	-4.9	0.31 - 1.75	0.18 W
Gross beta	4.01 4.24 A	-5.4	2.12 - 6.36	0.34 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	s (%)	Range	Value Flag
Gross alpha	8.73E-01	1.03 A	-15.2	0.31 - 1.75	1.20E-01 A
Gross beta	3.42E+00	4.24 A	-19.3	2.12 - 6.36	1.26E-01 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (DEHS01) Department of Environmental Health & Safety North Carolina State Univ. Raleigh, NC 27695-8007

Radiological					Units: (Bq/L)
	Re	ef	Bias	Acceptance	Unc Unc
Analyte	Result Val	lue Flag Notes	(%)	Range	Value Flag
Gross alpha	1.56	1.03 A	51.5	0.31 - 1.75	0.32 W
Gross beta	4.11	4.24 A	-3.1	2.12 - 6.36	0.43 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

A = Result acceptable, Bias \leq = +/- 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 > +/-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 > +/- 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%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (DINL99) Departamento Ingeniería Nuclear y Mecánica de Fluidos Escuela de Ingeniería de Bilbao Bilbao, Vizcaya 48013

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag N	otes (%)	Range	Value Flag
Gross alpha	2.316	1.03 N	124.9	0.31 - 1.75	0.376 W
Gross beta	4.267	4.24 A	0.6	2.12 - 6.36	0.319 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (DLEA01) DLE Associates 730 Alfred Nobel Drive Hercules, CA 94547

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	s (%)	Range	Value Flag
Gross alpha	0.91	1.03 A	-11.7	0.31 - 1.75	0.12 A
Gross beta	3.68	4.24 A	-13.2	2.12 - 6.36	0.29 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	0.062	1.03	N	-94.0	0.31 - 1.75	0.036 N
Gross beta	-0.18	4.24	N	-104.2	2.12 - 6.36	0.033 N

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.03 1.03 A	0.0	0.31 - 1.75	0.16 W
Gross beta	4.22 4.24 A	-0.5	2.12 - 6.36	0.17 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (ERHD99) Radiation Protection Bureau Health Canada RSD NMS 775 Brookfield Road AL6302D1 Ottawa, Ontario K1A 1C1

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Not	tes (%)	Range	Value Flag
Gross alpha	1.025	1.03 A	-0.5	0.31 - 1.75	0.205 W
Gross beta	4.770	4.24 A	12.5	2.12 - 6.36	1.136 W

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

A = Result acceptable, Bias \leq = +/- 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 > +/-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 > +/- 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%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (FDHE01) Florida Dept of Health Environmental Laboratory PO Box 680069 Orlando, FL 32868-0069

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.891	1.03 A	-13.5	0.31 - 1.75	0.268 N
Gross beta	4.548	4.24 A	7.3	2.12 - 6.36	0.300 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.01 1.03 A	-1.9	0.31 - 1.75	0.103 A
Gross beta	4.18 4.24 A	-1.4	2.12 - 6.36	0.356 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	0.90	1.03 A	-12.6	0.31 - 1.75	0.14 W
Gross beta	5.21	4.24 A	22.9	2.12 - 6.36	0.53 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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 V	Value Flag Notes	s (%)	Range	Value Flag
Gross alpha	0.44	1.03 A	-57.3	0.31 - 1.75	0.06 A
Gross beta	2.68	4.24 A	-36.8	2.12 - 6.36	0.16 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

A = Result acceptable, Bias \leq = +/- 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 > +/-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 > +/- 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%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (HECR01) SC Dept. Health and Environmental Control Radiological Laboratory 8231 Parklane Road Columbia, SC 29223

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result V	'alue Flag Notes	(%)	Range	Value Flag
Gross alpha	0.976	1.03 A	-5.2	0.31 - 1.75	0.332 N
Gross beta	3.93	4.24 A	-7.3	2.12 - 6.36	0.237 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.484	1.03 A	44.1	0.31 - 1.75	0.045 A
Gross beta	3.616	4.24 A	-14.7	2.12 - 6.36	0.071 N

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

A = Result acceptable, Bias \leq = +/- 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 > +/-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 > +/- 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%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (ISUE01) ISU Environmental Monitoring Laboratory 785 5th 8th Ave Rm B107 Pocatello, Idaho 83209

Radiological				Units: (Bq/L)
	Ref	Bias	Acceptance	Unc Unc
Analyte	Result Value Flag Notes	(%)	Range	Value Flag
Gross alpha	1.2 1.03 A	16.5	0.31 - 1.75	0.1 A
Gross beta	5.5 4.24 A	29.7	2.12 - 6.36	0.1 N

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (LZCA01) ACZ Laboratories, Inc 2273 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	.825	1.03 A	-19.9	0.31 - 1.75	.173 W
Gross beta	4.28	4.24 A	0.9	2.12 - 6.36	.205 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.03	1.03 A	0.0	0.31 - 1.75	0.12 A
Gross beta	4.5	4.24 A	6.1	2.12 - 6.36	0.19 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	0.900	1.03 A	-12.6	0.31 - 1.75	0.1723 W
Gross beta	4.37	4.24 A	3.1	2.12 - 6.36	0.21 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.03 1.03 A	0.0	0.31 - 1.75	0.096 A
Gross beta	4.13 4.24 A	-2.6	2.12 - 6.36	0.096 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.10 1.03 A	6.8	0.31 - 1.75	0.11 A
Gross beta	4.09 4.24 A	-3.5	2.12 - 6.36	0.20 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (ORIS01) ORISE/IEAV PO Box 117 Oak Ridge, TN 37831-0117

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.745	1.03 A	-27.7	0.31 - 1.75	0.058 A
Gross beta	3.996	4.24 A	-5.8	2.12 - 6.36	0.066 N

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.00	1.03 A	-2.9	0.31 - 1.75	0.11 A
Gross beta	4.26	4.24 A	0.5	2.12 - 6.36	0.17 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

A = Result acceptable, Bias \leq = +/- 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 > +/-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 > +/- 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%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (SOUT01) Southwest Research Institute 6220 Culebra Rd.
San Antonio, TX 78228-0510

Radiological						Units: (Bq/L)
		Ref		Bias	Acceptance	Unc Unc
Analyte	Result	Value	Flag Notes	(%)	Range	Value Flag
Gross alpha	0.722	1.03	Α	-29.9	0.31 - 1.75	0.117 W
Gross beta	4.41	4.24	Α	4.0	2.12 - 6.36	0.316 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (SRPD01) Sandia National Laboratories, Radiation Protection Sample Diagnostics PO Box 5800, MS1103 Albuquerque, NM 87185-1103

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Note	es (%)	Range	Value Flag
Gross alpha	0.271	1.03 N	-73.7	0.31 - 1.75	0.0338 A
Gross beta	4.20	4.24 A	-0.9	2.12 - 6.36	0.120 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

A = Result acceptable, Bias \leq = +/- 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 > +/-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 > +/- 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%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (TDHL01) Texas Department of State Health Services Laboratory 1100 W 49th Street Austin, TX 78756

Radiological					Units: (Bq/L)
	I	Ref	Bias	Acceptance	Unc Unc
Analyte	Result V	alue Flag Notes	(%)	Range	Value Flag
Gross alpha	1.026	1.03 A	-0.4	0.31 - 1.75	0.070 A
Gross beta	4.03	4.24 A	-5.0	2.12 - 6.36	0.12 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (TELE02) ATI Environmental, Inc., Midwest Lab 700 Landwehr Road Northbrook, IL 60062-

Radiological					Units: (Bq/L)
		Ref	Bias	Acceptance	Unc Unc
Analyte	Result	Value Flag Notes	(%)	Range	Value Flag
Gross alpha	0.86	1.03 A	-16.5	0.31 - 1.75	0.06 A
Gross beta	3.79	4.24 A	-10.6	2.12 - 6.36	0.07 N

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (TMAO01) EBERLINE SERVICES OAK RIDGE LABORATORY 601 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	1.066	1.03 A	3.5	0.31 - 1.75	0.217 W
Gross beta	4.553	4.24 A	7.4	2.12 - 6.36	0.242 A

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (TNUT01) St. Louis USACE FUSRAP Laboratory 112 James S McDonnell Blvd Saint Louis, MO 63042

Radiological					Units: (Bq/L)
	Ref	•	Bias	Acceptance	Unc Ur	nc
Analyte	Result Valu	e Flag Notes	(%)	Range	Value Fla	ag
Gross alpha	1.2846	1.03 A	24.7	0.31 - 1.75	.1880 A	4
Gross beta	2.8734	4.24 A	-32.2	2.12 - 6.36	.2615 A	1

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

A = Result acceptable, Bias \leq = +/- 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 > +/-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 > +/- 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%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (WEST04) PACE ANALYTICAL SERVICES, PITTSBURGH 1638 Roseytown Road Greensburg, PA 15601

Radiological					Units: (Bq/L)
	Re	ef	Bias	Acceptance	Unc Ur	nc
Analyte	Result Val	lue Flag Notes	s (%)	Range	Value Fla	ag
Gross alpha	1.0841	1.03 A	5.3	0.31 - 1.75	0.2461 W	V
Gross beta	3.6889	4.24 A	-13.0	2.12 - 6.36	0.6808 W	٧

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

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

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision



Laboratory Results For MAPEP-20-GrW42 (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	1.295	1.03 A	25.7	0.31 - 1.75	0.069 A
Gross beta	4.588	4.24 A	8.2	2.12 - 6.36	0.071 N

Radiological Reference Date: February 1, 2020

Gross Alpha Flags:

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

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

Uncertainty Flags:

NOT ACCEPTABLE.....RP<2%

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

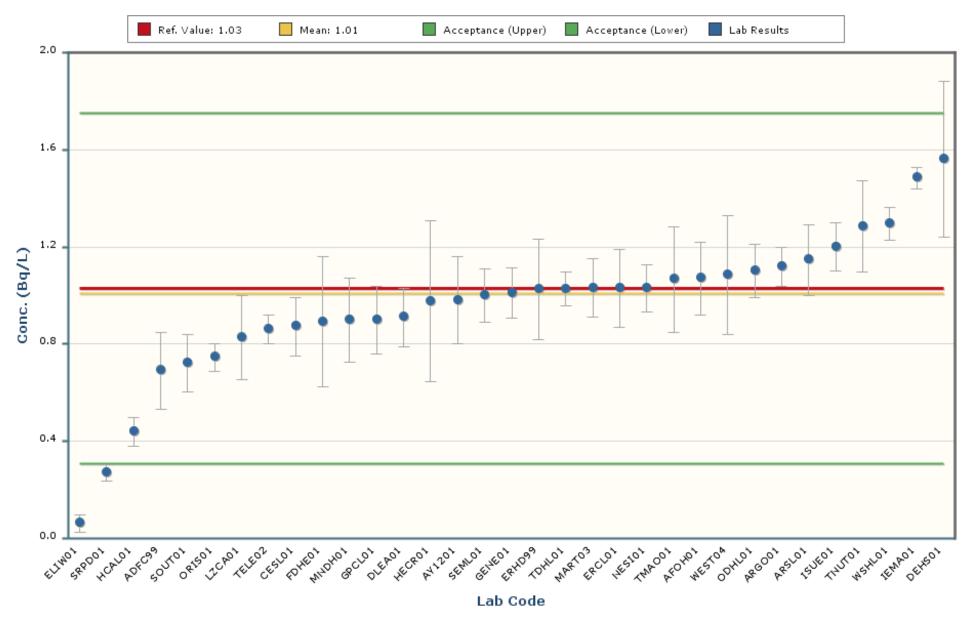
ACCEPTABLE WITH WARNING......15%<RP<=30%

NOT ACCEPTABLE.....RP>30%

RP = Relative Precision

Gross alpha

MAPEP-20-GrW42

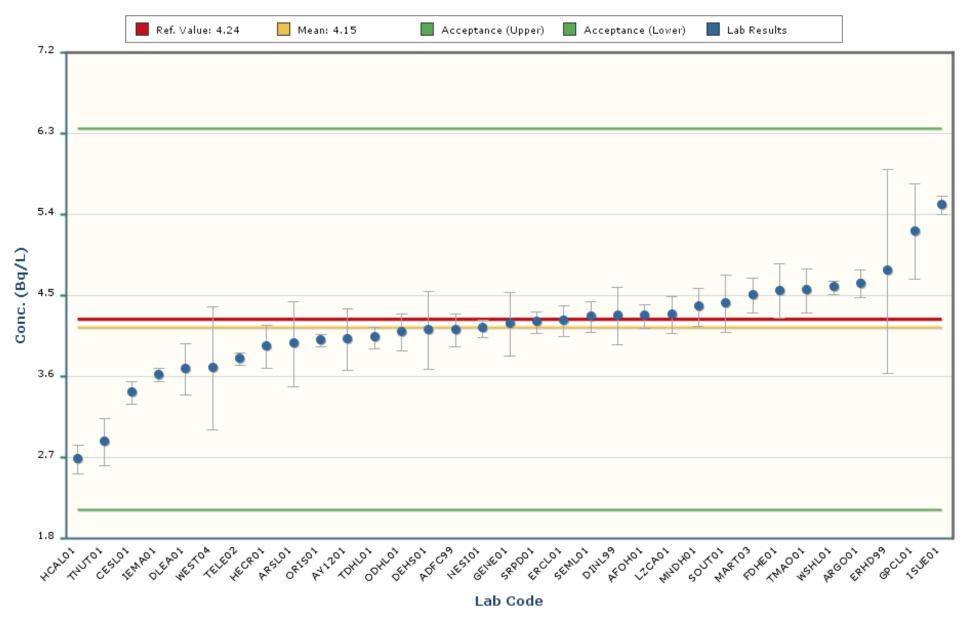


Notes:

The chart shows only data points with values between -0.10 and 2.12 (\pm 5 Standard Deviations).

Gross beta

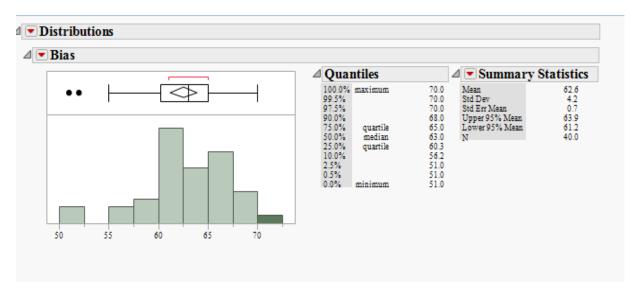
MAPEP-20-GrW42



Notes:

The chart shows only data points with values between 1.40 and 6.90 (± 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.

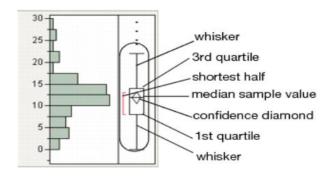


Outlier Box Plot

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)

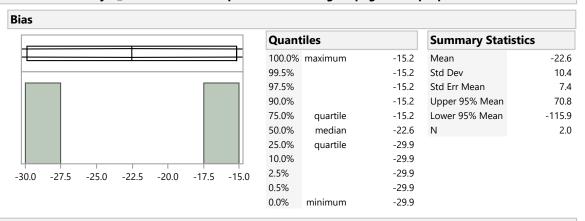
1st quartile - 1.5*(interquartile range)



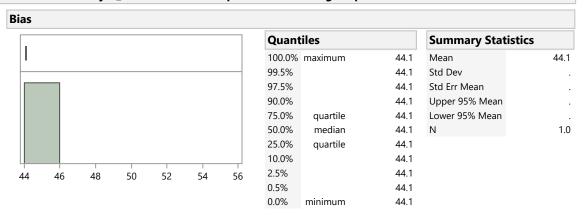
If the data points do not reach the computed ranges, then the whiskers are determined by the upper and lower data point values (not including outliers). The bracket outside of the box identifies the *shortest half*, which is the most dense 50% of the observations (Rousseuw and Leroy 1987).

GrW Distribution by Detection Method

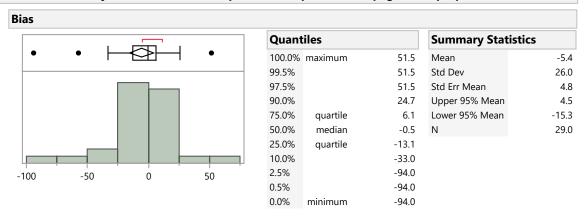
Distributions Analyte_Detection=Gross alpha Beta Counting - 2 pi gas flow proportional counter



Distributions Analyte_Detection=Gross alpha Beta Counting - liquid scintillation counter



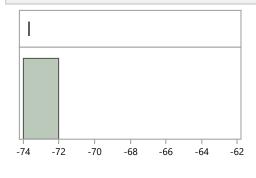
Distributions Analyte_Detection=Gross alpha Gross Alpha/Beta - 2 pi gas flow proportional counter



GrW Distribution by Detection Method

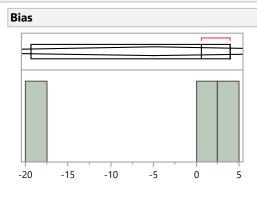
Distributions Analyte_Detection=Gross alpha Other





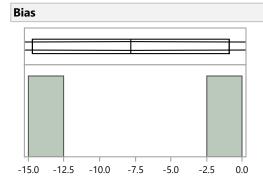
Quant	iles		Summary Stat	istics
100.0%	maximum	-73.7	Mean	-73.7
99.5%		-73.7	Std Dev	
97.5%		-73.7	Std Err Mean	
90.0%		-73.7	Upper 95% Mean	
75.0%	quartile	-73.7	Lower 95% Mean	
50.0%	median	-73.7	N	1.0
25.0%	quartile	-73.7		
10.0%		-73.7		
2.5%		-73.7		
0.5%		-73.7		
0.0%	minimum	-73.7		

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



Quant	iles		Summary Stat	tistics
100.0%	maximum	4.0	Mean	-4.9
99.5%		4.0	Std Dev	12.6
97.5%		4.0	Std Err Mean	7.3
90.0%		4.0	Upper 95% Mean	26.4
75.0%	quartile	4.0	Lower 95% Mean	-36.2
50.0%	median	0.6	N	3.0
25.0%	quartile	-19.3		
10.0%		-19.3		
2.5%		-19.3		
0.5%		-19.3		
0.0%	minimum	-19.3		

Distributions Analyte_Detection=Gross beta Beta Counting - liquid scintillation counter



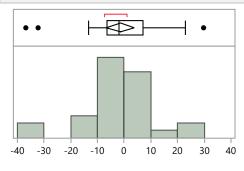
Quant	iles	
100.0%	maximum	-0.9
99.5%		-0.9
97.5%		-0.9
90.0%		-0.9
75.0%	quartile	-0.9
50.0%	median	-7.8
25.0%	quartile	-14.7
10.0%		-14.7
2.5%		-14.7
0.5%		-14.7
0.0%	minimum	-14.7

Mean	-7.8
Std Dev	9.8
Std Err Mean	6.9
Upper 95% Mean	79.9
Lower 95% Mean	-95.5
N	2.0

GrW Distribution by Detection Method

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

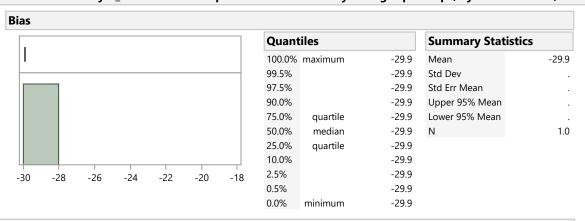




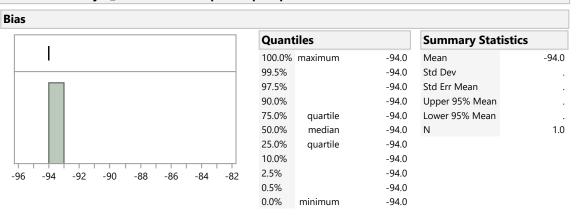
Quant	iles	
100.0%	maximum	29.7
99.5%		29.7
97.5%		29.7
90.0%		13.5
75.0%	quartile	7.0
50.0%	median	-2.0
25.0%	quartile	-6.4
10.0%		-15.1
2.5%		-36.8
0.5%		-36.8
0.0%	minimum	-36.8

Summary Stat	istics
Mean	-1.5
Std Dev	13.4
Std Err Mean	2.5
Upper 95% Mean	3.7
Lower 95% Mean	-6.7
N	28.0

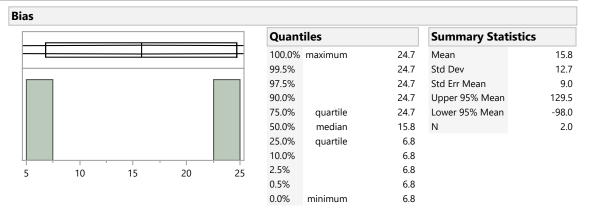
Distributions Analyte_Method=Gross alpha Acid dissolution by strong Aqua Reqia, hydrofluoric acid, etc.



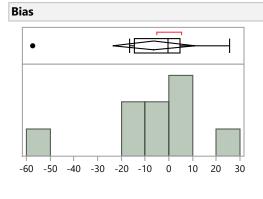
Distributions Analyte_Method=Gross alpha Coprecipitation, acidified



Distributions Analyte_Method=Gross alpha Coprecipitation, straight



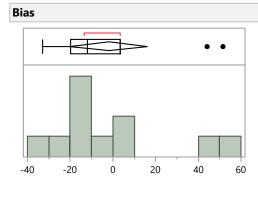
Distributions Analyte_Method=Gross alpha EPA 900, Radioactivity, Gross Alpha/Beta Screening, 600/4-80-032



Quant	iles	
100.0%	maximum	25.7
99.5%		25.7
97.5%		25.7
90.0%		25.7
75.0%	quartile	4.6
50.0%	median	-0.4
25.0%	quartile	-14.6
10.0%		-57.3
2.5%		-57.3
0.5%		-57.3
0.0%	minimum	-57.3

Summary Stat	istics
Mean	-6.3
Std Dev	22.6
Std Err Mean	7.5
Upper 95% Mean	11.0
Lower 95% Mean	-23.7
N	9.0

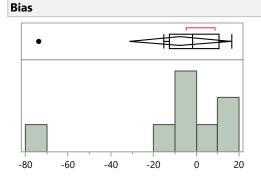
Distributions Analyte_Method=Gross alpha Evaporation, acidified



Quant	iles	
100.0%	maximum	51.5
99.5%		51.5
97.5%		51.5
90.0%		50.0
75.0%	quartile	3.5
50.0%	median	-11.7
25.0%	quartile	-19.9
10.0%		-31.9
2.5%		-33.0
0.5%		-33.0
0.0%	minimum	-33.0

Summary Stat	istics
Mean	-1.9
Std Dev	27.0
Std Err Mean	8.1
Upper 95% Mean	16.2
Lower 95% Mean	-20.1
N	11.0

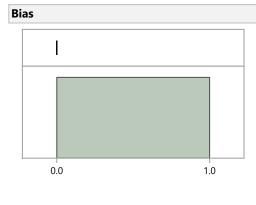
Distributions Analyte_Method=Gross alpha Evaporation, straight



Quant	iles	
100.0%	maximum	16.5
99.5%		16.5
97.5%		16.5
90.0%		16.5
75.0%	quartile	10.7
50.0%	median	-1.7
25.0%	quartile	-12.6
10.0%		-73.7
2.5%		-73.7
0.5%		-73.7
0.0%	minimum	-73.7

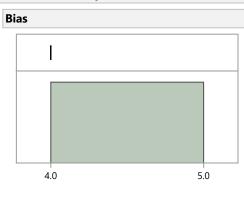
Mean	-7.6
Std Dev	28.6
Std Err Mean	10.1
Upper 95% Mean	16.3
Lower 95% Mean	-31.5
N	8.0

Distributions Analyte_Method=Gross alpha No preparation - analyzed as received



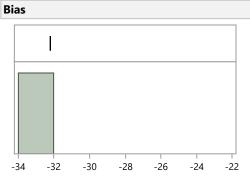
Quant	tiles		Summary Stat	istics
100.0%	maximum	0.0	Mean	0.0
99.5%		0.0	Std Dev	
97.5%		0.0	Std Err Mean	
90.0%		0.0	Upper 95% Mean	
75.0%	quartile	0.0	Lower 95% Mean	
50.0%	median	0.0	N	1.0
25.0%	quartile	0.0		
10.0%		0.0		
2.5%		0.0		
0.5%		0.0		
0.0%	minimum	0.0		

Distributions Analyte_Method=Gross beta Acid dissolution by strong Aqua Reqia, hydrofluoric acid, etc.



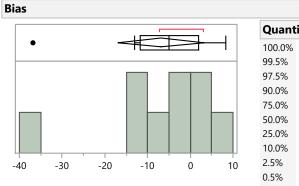
(Quant	iles		Summary Stat	istics
1	100.0%	maximum	4.0	Mean	4.0
9	99.5%		4.0	Std Dev	
9	97.5%		4.0	Std Err Mean	
9	90.0%		4.0	Upper 95% Mean	
7	75.0%	quartile	4.0	Lower 95% Mean	
5	50.0%	median	4.0	N	1.0
2	25.0%	quartile	4.0		
1	10.0%		4.0		
2	2.5%		4.0		
C	0.5%		4.0		
C	0.0%	minimum	4.0		

Distributions Analyte_Method=Gross beta Coprecipitation, straight



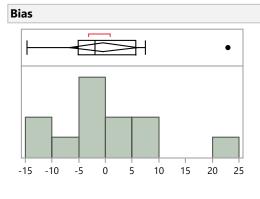
Quant	iles		Summary Stat	istics
100.0%	maximum	-32.2	Mean	-32.2
99.5%		-32.2	Std Dev	
97.5%		-32.2	Std Err Mean	
90.0%		-32.2	Upper 95% Mean	
75.0%	quartile	-32.2	Lower 95% Mean	
50.0%	median	-32.2	N	1.0
25.0%	quartile	-32.2		
10.0%		-32.2		
2.5%		-32.2		
0.5%		-32.2		
0.0%	minimum	-32.2		

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



Quant	iles		Summary Stat	istics
100.0%	maximum	8.2	Mean	-6.8
99.5%		8.2	Std Dev	13.1
97.5%		8.2	Std Err Mean	4.4
90.0%		8.2	Upper 95% Mean	3.3
75.0%	quartile	1.9	Lower 95% Mean	-16.9
50.0%	median	-5.0	N	9.0
25.0%	quartile	-11.8		
10.0%		-36.8		
2.5%		-36.8		
0.5%		-36.8		
0.0%	minimum	-36.8		

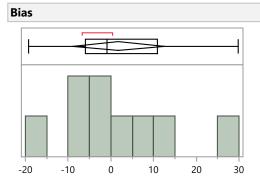
Distributions Analyte_Method=Gross beta Evaporation, acidified



Quant	iles		Sum
100.0%	maximum	22.9	Mean
99.5%		22.9	Std D
97.5%		22.9	Std Er
90.0%		18.3	Uppe
75.0%	quartile	5.7	Lower
50.0%	median	-2.0	N
25.0%	quartile	-5.1	
10.0%		-14.3	
2.5%		-14.7	
0.5%		-14.7	
0.0%	minimum	-14.7	

Summary Stat	istics
Mean	-0.4
Std Dev	9.9
Std Err Mean	2.9
Upper 95% Mean	5.9
Lower 95% Mean	-6.7
N	12.0

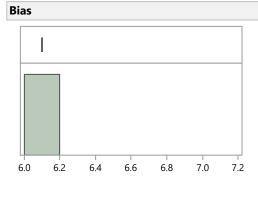
Distributions Analyte_Method=Gross beta Evaporation, straight



Quant	iles	
100.0%	maximum	29.7
99.5%		29.7
97.5%		29.7
90.0%		29.7
75.0%	quartile	10.9
50.0%	median	-0.9
25.0%	quartile	-6.0
10.0%		-19.3
2.5%		-19.3
0.5%		-19.3
0.0%	minimum	-19.3

Summary Stati	stics
Mean	1.8
Std Dev	13.9
Std Err Mean	4.6
Upper 95% Mean	12.5
Lower 95% Mean	-8.9
N	9.0

Distributions Analyte_Method=Gross beta No preparation - analyzed as received



Quantiles		
100.0%	maximum	6.1
99.5%		6.1
97.5%		6.1
90.0%		6.1
75.0%	quartile	6.1
50.0%	median	6.1
25.0%	quartile	6.1
10.0%		6.1
2.5%		6.1
0.5%		6.1
0.0%	minimum	6.1

	Summary Statistics		
1	Mean	6.1	
1	Std Dev		
1	Std Err Mean		
1	Upper 95% Mean		
1	Lower 95% Mean		
1	N	1.0	
1			
1			
1			