

Analytical Data

Tank Name	AutoStat Reference I	Run Date	AutoTCR Means Report Title	Constituent Name
241-C-109	8/20/2013 9:48	8/20/2013 9:51	241-C-109 Residual Solids Compos	Bulk Density
241-C-109	8/20/2013 9:48	8/20/2013 9:51	241-C-109 Residual Solids Compos	Bulk Density
241-C-109	8/20/2013 9:48	8/20/2013 9:51	241-C-109 Residual Solids Compos	Bulk Density
241-C-109	8/20/2013 9:48	8/20/2013 9:51	241-C-109 Residual Solids Compos	Plutonium-238
241-C-109	8/20/2013 9:48	8/20/2013 9:51	241-C-109 Residual Solids Compos	Plutonium-238
241-C-109	8/20/2013 9:48	8/20/2013 9:51	241-C-109 Residual Solids Compos	Plutonium-238
241-C-109	8/20/2013 9:48	8/20/2013 9:51	241-C-109 Residual Solids Compos	Plutonium-238

BBI Calculation

Tank Name	Reference Date	AutoTCR Means Re	Constituent Name	Molecular Formula
241-C-109	8/20/2013 9:48	241-C-109 Residua	Bulk Density	
241-C-109	8/20/2013 9:48	241-C-109 Residua	Plutonium-238	Pu-238

RSD Calc using Searle Equation (RPP-6924)

Searle Eqn. Bulk Density

a=	3	
N=	3	
S ₂ =	3	
To=	9.1281	
Ta=	9.1281	
Tu=	9.117633333	
s _e ² =	0	
s _a ² =	0.005233333	
w _i =	191.0828025	same for all events
y _i =		
yave=	1.743333333	
SD=	0.041766547	
RSD=	0.023957866	

Analysis M	Aggregation Level	Result Type	Standard Value	Standard Units	Qualifiers
V%SLD	Sol Tank Composite	PRIMARY_RESULT	1.66	g/mL	
V%SLD	Sol Tank Composite	PRIMARY_RESULT	1.78	g/mL	
V%SLD	Sol Tank Composite	PRIMARY_RESULT	1.79	g/mL	
Am-241	Sol Tank Composite	PRIMARY_RESULT	0.000885	uCi/g	
Am-241	Sol Tank Composite	PRIMARY_RESULT	0.00119	uCi/g	
Am-241	Sol Tank Composite	DUPLICATE_RESULT	0.00124	uCi/g	
Am-241	Sol Tank Composite	PRIMARY_RESULT	0.00164	uCi/g	

Analysis M	Phase	Mean	Units	Std Dev	Degrees of
V%SLD	SOLID	1.743333333	g/mL	0.041766547	2
Am-241	SOLID	0.001246609	uCi/g	0.000195745	2

Searle Eqn. Pu-238

a=	3		
N=	4		
S ₂ =	6		
To=	6.42653E-06		
Ta=	6.42528E-06		
Tu=	6.13801E-06		
s _e ² =	1.25E-09		
s _a ² =	1.13907E-07		
w _i =	8683759.199	8731146.181	8683759.199
y _i =	0.000885	0.001215	0.00164
yave=	0.001246609		
SD=	0.000195745		
RSD=	0.157022013		

Lab Sample ID	Review Sta	Location of Sampling	E Segment	N Sample	Por	Device Type	Sample Sta	Phase	Assign
S13T004242	REVIEWED	RPP-RPT-5	9C-13-Com	NA	Total	GRAB	SOLID	Not Assigne	
S13T004269	REVIEWED	RPP-RPT-5	9C-13-Com	NA	Total	GRAB	SOLID	Not Assigne	
S13T004296	REVIEWED	RPP-RPT-5	9C-13-Com	NA	Total	GRAB	SOLID	Not Assigne	
S13T004309Z	REVIEWED	RPP-RPT-5	9C-13-Com	NA	Total	GRAB	SOLID	Not Assigne	
S13T004254Z	REVIEWED	RPP-RPT-5	9C-13-Com	NA	Total	GRAB	SOLID	Not Assigne	
S13T004254Z	REVIEWED	RPP-RPT-5	9C-13-Com	NA	Total	GRAB	SOLID	Not Assigne	
S13T004282Z	REVIEWED	RPP-RPT-5	9C-13-Com	NA	Total	GRAB	SOLID	Not Assigne	

95% LL	95% UL	Number At	Number Be	Comments	Model	Variance W	Variance - I	Sampling E
1.56363	1.92304	3	0		Standard D	0.005233	0	9C-13-Com
0.000404385	0.002089	4	0		Lab Sample	1.14E-07	1.25E-09	9C-13-Com

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RSD

0.023957

0.157022