Test Report for Permanganate and Cold Strontium Strike for Tank 241-AN-102

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EXECUTIVE SUMMARY

Tanks 241-AN-102 and 241-AN-107 supernatants contain soluble Sr-90 and transuranic elements that require removal prior to vitrification to comply with the Waste Treatment and Immobilization Plant immobilized low-activity waste specification (WTP Contract, DE-AC27-01RV 14136, Specification 2.2.2.8, "Radionuclide Concentration Limitations") and the U.S. Nuclear Regulatory Commission provisional agreement on waste incidental to reprocessing (letter, Paperiello, C. J., "Classification of Hanford Low-Activity Tank Waste Fraction"). These two tanks have high concentrations of organics and organic complexants and are referred to as complexant concentrate tanks. A precipitation process using sodium permanganate ($NaMnO_4$) and strontium nitrate ($Sr(NO_3)_2$) was developed and tested with tank waste samples to precipitate Sr-90 and transuranic elements from the supernate (PNWD-3141, *Optimization of Sr/TRU Removal Conditions with Samples of AN-102 Tank Waste*).

Testing documented in this report was conducted to further evaluate the use of the strontium nitrate/sodium permanganate process in tank farms with a retention time of up to 12 months. Previous testing was focused on developing a process for deployment in the ultrafiltration vessels in the Waste Treatment and Immobilization Plant. This environment is different from tank farms in two important ways: the waste is diluted in the Waste Treatment and Immobilization Plant to ~5.5 M sodium, whereas the supernate in the tank farms is ~9 M Na. Secondly, while the Waste Treatment and Immobilization Plant allows for a maximum treatment time of hours to days, the in-tank farms treatment of tanks 241-AN102 and 241-AN-107 will result in a retention time of months (perhaps up to12 months) before processing. A comparative compilation of separation processes for Sr/transuranics has been published as RPP-RPT-48340, *Evaluation of Alternative Strontium and Transuranic Separation Processes*. This report also listed the testing needs for the permanganate precipitation process to be field-deployable. A more comprehensive listing of future testing needs to allow the process to be field deployable are contained in RPP-PLAN-51288, *Development Test Plan for Sr/TRU Precipitation Process*.

One previous test had been performed on undiluted 241-AN-107 waste, in which the decontamination factors for Sr-90 and transuranic elements were determined after a period of two weeks (7S110-RWW-05-017, *Test Results For At-Tank Conditions For Strontium/Transuranic Removal From Tank 241-AN-107 Supernatant*). The study resulted in a reduction of Sr-90 from 81 to 82% and Am-241 from 68 to 77% depending upon the test conditions. This test, in combination with the aforementioned list of required testing, was the basis for the follow-up study reported herein, by determining the decontamination factors at selected time intervals over a longer period while keeping the waste at its original sodium molarity. The purpose is to obtain additional confirmation that the process potentially works with undiluted waste, and to determine whether there are potential changes in the stability of the precipitate over time, thus affecting decontamination factors.

This effort was undertaken to monitor changes occurring in the complexant concentrate Envelope C tank, i.e., tank 241-AN-102 over a 12-month time period following a cold strontium and sodium permanganate strike. Both the strontium and permanganate were added as 1 M solutions to achieve final concentrations of 0.02 M and 0.04 M.

Tank 241-AN-102 samples were obtained from the 11A hot cell archive. The samples were composited and divided into two sets of triplicates, plus one control (untreated). Each sample contained 100 mL of tank supernate. Three of the samples were treated with a solution of strontium nitrate and sodium permanganate to a final concentration of 0.02 M each. Likewise, three of the samples were contacted with strontium nitrate and sodium permanganate to a final concentration of 0.04 M each. The control was left untreated and sampled at each designated sample period. The sample periods were originally set at 2 weeks, 2 months, 6 months, and 12 months (the sample breakdown diagram is added as Appendix A). Appendix B presents the full suite of analytical data, Appendix C presents the data summary report, and Appendix D presents calculations for the target concentrations in immobilized low-activity waste. The 2-week samples were not drawn as the laboratory was in shutdown mode due to extended maintenance operations for several weeks. The 2-month, 6-month, and 12-month aliquots were sampled as close to the scheduled date as possible, and analyzed within the time prioritization of tank samples.

Strontium-90 and TRU removal is required for the immobilized low-activity waste glass made from the supernate of the waste tanks to meet the class C waste limits incorporated in Specification 2.2.2.8 of the Waste Treatment and Immobilization Plant contract (DE-AC27-01RV 14136). These limits are 100 nCi/g for transuranics and 20 Ci/m^3 for Sr-90. By using an assumed sodium oxide loading for immobilized low-activity waste and assumed glass density, the ratios of radionuclide concentration to sodium molarity for the supernate needed to meet these limits can be calculated. These calculations are shown in Appendix D. As with previous evaluations of this precipitation process, the target removal is 50% of the immobilized low-activity waste limits (50 nCi/g for transuranics and 10 Ci/m^3 for Sr-90). These targets are conservatively selected (see RPP-24809, *Strontium and TRU Separation Process in the DST System*) and allow for uncertainties in characterization data and removal efficiency.

Table ES-1 shows the ratios of μCi radionuclide to mole sodium for the untreated supernate and for the samples treated with 0.02-M and 0.04-M reagent solutions. The results shown are averages of the analyses performed at each time interval. Americium-241 was decided upon to represent the all transuranics. The concentration ratios needed to meet immobilized low-activity waste limits and to meet 50% of immobilized low-activity waste limits are shown.

Table ES-1. Results of Tank 241-AN-102 Supernate Treated with 0.02-M and with 0.04-M Reagent Solution.

Sample Period (Months)	Am-241 (µCi per mole Na)	Sr-90 (µCi per mole Na)
Concentration to meet immobilized low-activity waste limits	< 1.53E+01	< 1.19E+03
Target concentration for 50% of immobilized low-activity waste limits	<7.65E+00	<5.95E+02
Untreated Waste		
2	9.95E+00	5.06E+03
6	1.17E+01	6.06E+03
12	8.79E+00	4.98E+03
0.02-M treatment		
2	6.79E+00	1.73E+03
6	5.43E+00	9.96E+02
12	4.97E+00	6.36E+02
0.04-M treatment		
2	4.33E+00	4.84E+02
6	4.44E+00	2.50E+02
12	3.77E+00	1.67E+02

As shown in Table ES-1, the Am-241 concentration for the untreated 241-AN-102 sample is below the concentration needed to meet immobilized low-activity waste limits, although above the target concentration to meet 50% of the immobilized low-activity waste limits. The Sr-90 concentration for the untreated supernate is well above the target concentration. The treated supernate at 12 months meets the target concentrations for Am-241 for both the 0.02-M and 0.04-M reagent concentrations. However, as to the Sr-90 only the 0.04M concentration of strontium nitrate meets the 50% immobilized low-activity waste limits. It would therefore appear from the data that an optimization of the strike molarities of permanganate and strontium nitrate is necessitated. In regard to the primary study question for this testing, the Am-241 and Sr-90 concentrations in the supernate are steady over time, thus indicating that no significant re-solvation of the precipitates is occurring.

From Table ES-2, it is apparent that the addition of the higher molar strontium nitrate and sodium permanganate solution is more effective in precipitating the analytes of interest from the supernate. For Am-241 the decontamination factor increases by 40%, and in the case of Sr-90 it increases 23% on average for the twelve month sample period when comparing the 0.02-M and the 0.04-M treatment. The decontamination factor was calculated as the ratio of the concentration before treatment divided by concentration after treatment.

Table ES-2. Americium-241 and Sr-90 Decontamination Factors and Percent Removed during One Year Treatment.

	Am-241		Sr-90	
0.02-M Treatment				
Sample (Months)	**DF**	**% Removed**	**DF**	**% Removed**
2	1.73E+00	42.3	3.48E+00	71.3
6	1.78E+00	43.9	5.05E+00	80.2
12	1.74E+00	42.5	7.71E+00	87.0
0.04-M Treatment				
Sample (Months)	**DF**	**% Removed**	**DF**	**% Removed**
2	2.59E+00	61.4	1.18E+01	91.5
6	2.18E+00	54.2	2.02E+01	95.0
12	2.55E+00	60.8	3.27E+01	96.9

DF = Decontamination Factor

One aspect that needs further consideration before determining a path forward in the use of a permanganate strike is the overall amount of generated solids. The numbers in Table ES-3 show that for the 0.02-M treatment ~400 metric tons of solids form, while the 0.04-M treatment would generate ~500 metric tons. Note that these values are based on centrifuged solids, which included water content.

Table ES-3. Estimated Amounts of Solids Formed during Precipitation.

Treatment	Solids Formation (g)	Original Supernate (mL)	Solids Formation (g/mL Original Supernate)	Corrected Solids Formation*		Solids Addition in Tank 241-AN-102 Due to Treatment**	
				(g/mL Original Supernate)	(lbs/gal Original Supernate)	(lbs)	Metric Tons
Untreated	4.97	100	0.05	--	--	-	
0.02 M	16.5	96	0.17	0.12	1.00	8.85E+05	401
0.04 M	18.8	92	0.20	0.15	1.25	1.11E+06	502

* "Corrected solids formation" excludes solids formed in the untreated sample.
** According to HNF-EP-0182, *Waste Tank Summary for Month Ending January 31, 2013*, Tank 241-AN-102 contains 885,000 gallons of supernate.

This is not an unknown side effect, earlier notices can be found, e.g., in PNNL-10766, *Removal of Strontium and Transuranics from Hanford Tank Waste via Addition of Metal Cations and Chemical Oxidant-FY 1995 Test Results,* page 2.1: "The major disadvantage associated with the use of permanganate addition is that it results in formation of a significant amount of solids." This report also points out that "the increase in the number of glass logs generated" should be examined; however, it seems that to date no study has been performed as to how many additional glass logs bearing transuranic waste is reflected in the amounts shown in Table ES-3.

As shown in this study, the contractual target levels of Sr-90 and/or transuranics were met without re-solvation over a 12-month period. In order to attain the target concentration of 50% immobilized low-activity waste limits (Table ES-1), 0.02-M permanganate will suffice for the transuranics reduction, while 0.04-M strontium nitrate would be needed for Sr-90.

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Acronyms and Abbreviations

AN-102	tank 241-AN-102
AN-107	tank 241-AN-107
DF	decontamination factor
GPC	gel permeation chromotography
ILAW	immobilized low-activity waste
NRC	U.S. Nuclear Regulatory Commission
TGA	thermogravimetric analysis
TIC	total inorganic carbon
TOC	total organic carbon
TRU	transuranic (waste)
WTP	Waste Treatment and Immobilization Plant

Units

°C	degrees Centigrade
Ci	Curie
gal	gallons
g	grams
kg	kilogram
kGy	kiloGray
L	liter
lb	pound
m	meter
nCi	nanocurie
µg	microgram
mL	milliliter
M	molar
µCi/g	microcuries per gram

1 INTRODUCTION

This document reports the data acquired under WRPS-49108, *Test Plan for Permanganate and Cold Strontium Strike for Tank 241-AN-102 and Tank 241-AN-107*. Tanks 241-AN-102 (AN-102) and 241-AN-107 (AN-107) are complexant concentrate tanks, meaning that the waste contains significant amounts of organics primarily composed of chelating agents. Due to the chelating agents, strontium (including Sr-90) and transuranics (TRU) are soluble in the supernate. A primary objective of this testing was to study the overall stability of the chemical system after a sodium permanganate and cold strontium nitrate strike was initiated and precipitation of isotopic strontium and TRU occurred over a time period of 1 year.

The soluble Sr-90 and TRU elements require removal prior to vitrification to comply with the Waste Treatment and Immobilization Plant (WTP) immobilized low-activity waste (ILAW) specification (WTP Contract, Contract No. DE-AC27-01RV14136, Specification 2.2.2.8, "Radionuclide Concentration Limitations") and the U.S. Nuclear Regulatory Commission (NRC) incidental waste determination (letter, Paperiello, C. J., "Classification of Hanford Low-Activity Tank Waste Fraction"). A combined precipitation process using sodium permanganate ($NaMnO_4$) and strontium nitrate ($Sr(NO_3)_2$) was developed in the late 1990s and tested with AN-102 and AN-107 tank waste samples (PNWD-3047, *Development of an Alternative Treatment Scheme for Sr/TRU Removal: Permanganate Treatment of AN-107 Waste,* and PNWD-3141, *Optimization of Sr/TRU Removal Conditions with Samples of AN-102 Tank Waste*).

The concept of isotope dilution was previously studied and reported (WHC-SD-WM-DTR-040, *Report of Scouting Study on Precipitation of Strontium, Plutonium, and Americium from Hanford Complexant Concentrate Waste*) and involves the precipitate strontium carbonate which can then be removed.

$$Sr(NO_3)_2 + {}^{90}Sr{\cdot}Chelant + Na_2CO_3 \leftrightarrow Sr{\cdot}Chelant + {}^{90}SrCO_3 + 2NaNO_3 \qquad (1\text{-}1)$$

Due to the significant difference in solubility for sodium carbonate and strontium carbonate, which is several orders of magnitude (~1.1E-10), the forward reaction is favored.

Within the current flowsheet, the sequestration of the TRUs (primarily Am, Pu, and Cm) occurs by the addition of permanganate, which leads to the stepwise reduction of Mn(VII) to Mn(VI) to Mn(IV). Finally, MnO_2 precipitates, and the concomitant precipitation of TRU occurs. Manganese dioxide is actually present in a hydrated form as $NaMn(O)(OH)(O){\cdot}xH_2O$. An example of the mineralization of formate via manganese reactions is as follows:

$$2Mn^{VII}O_4^- + HCO_2 + 3OH^- \rightarrow 2Mn^{VI}O_4^{-2} + CO_3^{-2} + 2H_2O \qquad (1\text{-}2)$$

$$3\ Mn^{VI}O_4^{-2} + 2H_2O \leftrightarrow 2Mn^{VII}O_4^{-} + 4OH^{-} \quad (1\text{-}3)$$

Testing documented in this report was conducted to support the use of the strontium nitrate/sodium permanganate process in tank farms. Previous testing on the process was focused on developing the process for deployment in the ultrafiltration vessels in the WTP.

However, this environment is different from tank farms in two important ways. First, the waste is diluted in the WTP to ~5.5 M sodium, whereas the supernate in the tank farms is ~9 M Na. Secondly, the WTP allows for a maximum treatment time of hours to days, while the local treatment of tanks AN-102 and AN-107 (to be specified within the tank farms boundary) will result in a retention time of months (perhaps up to 12 months) before processing. One previous test had been performed on undiluted AN-107 waste, in which the decontamination factors (DF) for Sr-90 and TRU were tested after a period of two weeks (*7S110-RWW-05-017, Test Results For At-Tank Conditions For Strontium/Transuranic Removal From Tank 241-AN-107 Supernatant*). This resulted in a reduction of Sr-90 from 81 to 82% and Am-241 from 68 to 77% depending upon the test conditions.

The rationale for this study was that in systems of complex chemical mixtures, changes often occur over time while more stable chemical species are formed. Should such changes occur, it could be that the strontium and TRU metals held in the manganese dioxide precipitate may be released and re-complexed in the supernate. Even though it reacted previously with the permanganate, the supernate may have sufficient remaining chelates and complex-forming ions to support re-solvation of the strontium and TRU metals. This leads to the primary question: does re-solvation of strontium and TRUs occur over the period of a year, and if so, what is the extent?

The experimental work was carried out in the 1E2 and 11A hot cells of the 222-S Laboratory as a treatability study. The treatability study forms, waste stream fact sheets, compatibility review forms, job hazard analysis form, the RADCON review form, and the sample breakdown diagrams are parts of the project files together with login receipts, worksheets, hot cell data, test plan associated with this effort, sample breakdown diagrams, and laboratory test results. Laboratory notes are recorded in Lab Book HNF-N-274 3, pages 28 and 29.

2 MATERIALS AND METHODS

The test plan (WRPS-49108) included challenging both AN-102 and AN-107 supernate samples with cold strontium nitrate and sodium permanganate strikes. However, the volume of archived AN-107 samples was insufficient for the planned tests, so only the AN-102 portion of the test plan was carried out. Archived supernate grab samples for AN-102 were retrieved from the 11A hot cell repository. Samples that provided sufficient volume to accommodate a composite for the test are shown in Table 1. The samples were composited in equal volumes. The composites were then distributed so that with the addition of the requisite reagent molarities, the final volume of each vessel was 100 mL.

Table 1. Archived Tank 241-AN-102 Samples.

Archived Jar Number	Labcore Number	Tank Sampling Date
2AN-09-02TRIP	S09T008276	October 20, 2009
2AN-09-03TRIP	S09T008277	October 22, 2009
2AN-09-04TRIP	S09T008278	October 22, 2009
2AN-09-05TRIP	S09T008279	October 22, 2009

Two levels of reagent concentration were chosen for testing: 0.04 M (final molarity in mixture of waste and reagents) for strontium nitrate and sodium permanganate, and 0.02 M for strontium nitrate and sodium permanganate. The 0.04-M concentration is the equivalent in undiluted waste of the 0.02-M concentration identified as optimal in diluted waste testing. The 0.02-M concentration was chosen to evaluate whether sufficient removal of Sr-90 and TRU could be achieved with a lower reagent addition, but with the removal evaluated over an extended time period.

Three AN-102 samples were treated to achieve concentrations of 0.02-M strontium nitrite and 0.02-M sodium permanganate; three were treated to achieve concentrations of 0.04-M strontium nitrate and 0.04-M sodium permanganate; and one sample of equal volume was left unchallenged and sampled at the same intervals as the challenged samples. The strontium nitrate (non-radioactive) and sodium permanganate reagents were added as 1 M solutions. The samples were contained in Corning®[1] polycarbonate screw cap containers (catalog #431430). Polycarbonate was chosen for radiation resistance of 1,000 kGy as reported by Nordion®[2] Corporation. ("Gamma Compatible Materials Reference Guide," August 2011, [http://www.nordion.com/documents/Gamma_Compatible_Materials_List.pdf]. The testing was carried out at ambient hot cell temperature, 25 ^{o}C.

The samples were challenged on July 7, 2011. The sampling schedule was planned for 2 weeks, 2 months, 6 months, and 12 months post introduction of strontium nitrate and sodium permanganate. The 222-S Laboratory experienced electrical failure from its 50-year-plus electrical system resulting in several weeks of outage; hence the 2-week sample period was missed. The 2-month, 6-month, and 12-month aliquots were sampled as close to the scheduled time as possible and analyzed within the time prioritization of tank samples. At each sampling period, approximately 10 mL of the supernate was extracted from each polycarbonate vessel using a syringe and submitted for analyses.

For the 12-month sample, the entire sample was transferred to the 11A hot cell; each sample was centrifuged, and liquid and solids portions were quantitated and individually submitted for triplicate analyses. The untreated sample (blank) did have a few solids that precipitated over the 12-month period (~5 g); this amount was only sufficient for two analyses. The main analytes were Am-241 and Sr-90, as well as total organic carbon (TOC), total inorganic carbon (TIC), pH, sodium, hydroxide, aluminum, calcium, chromium, and nickel. Other analytes and isotopes reported were opportunistic to the instrumentation library.

[1] Corning is a registered trademark of the Corning Incorporated Corporation, Corning, New York.
[2] Nordion is a registered trademark of Nordion International, Inc., Ottawa, Ontario, Canada.

3 RESULTS

Appendix A contains the sample breakdown diagrams, giving the corresponding LABCORE sample identification numbers. The individual results and averages are presented in Appendix B. Each table in Appendix B indicates whether the AN-102 supernate was challenged with the 0.02-M solutions, the 0.04 solutions, or was left untreated. For the 2- and 6-month samples, the solids were composited, as the individual samples did not yield enough mass to submit for analyses. The untreated sample did not yield solids except for the centrifugation step at the 12-month sample time.

The results presented below in Tables 2 through 4 are the average results from the sample times as indicated, as well as the results of centrifuging the samples. The complete list of individual analyses is presented in Appendix B, with the concomitant associated ranges. Where blank cells appear in the tables, the analytes were below detection limits. The data summary report is presented in Appendix C.

Table 2. Averaged Analytical Results for the Supernate Samples.

Sampling Times (Months)	2	6	12	2	6	12
Reagent Molarity	**0.02**	**0.02**	**0.02**	**0.04**	**0.04**	**0.04**
Units	**(µg/mL)**	**(µg/mL)**	**(µg/mL)**	**(µg/mL)**	**(µg/mL)**	**(µg/mL)**
Aluminum	1.25E+04	1.42E+04	1.07E+04	1.29E+04	1.25E+04	8.73E+03
Cadmium	-	7.35E+01	6.11E+01	-	6.98E+01	6.00E+01
Calcium	3.47E+02	-	3.6E+02	3.07E+02	-	3.21E+02
Chromium	1.21E+02	1.34E+02	1.29E+02	8.38E+01	7.00E+01	6.23E+01
Copper	2.32E+01	-	2.47E+01	2.51E+01	-	2.23E+01
Hydroxide	5.15E+03	4.77E+03	5.43E+03	5.35E+03	4.60E+03	5.39E+03
Nickel	3.75E+02	4.99E+02	4.23E+02	3.97E+02	4.41E+02	4.17E+02
pH	13.5	13.5	13.5	13.5	13.4	13.5
Phosphorus	1.45E+03	1.35E+03	1.58E+03	1.62E+03	1.77E+03	1.71E+03
Potassium	2.15E+03	-	2.52E+03	2.28E+03	-	2.26E+03
Sodium	2.07E+05	2.45E+05	2.56E+05	2.17E+05	2.45E+05	2.30E+05
Strontium	9.90E+01	9.55E+01	7.63E+01	1.13E+02	9.57E+01	7.19E+01
Sulfur	4.42E+03	5.46E+03	5.10E+03	4.61E+03	5.03E+03	4.94E+03
TIC	1.35E+04	1.36E+04	1.33E+04	1.23E+04	1.29E+04	1.26E+04
TOC	2.31E+04	2.32E+04	2.25E+04	2.07E+04	2.16E+04	2.08E+04
Radioisotopes	**(µCi/mL)**	**(µCi/mL)**	**(µCi/mL)**	**(µCi/mL)**	**(µCi/mL)**	**(µCi/mL)**
Americium-241	6.12E-02	5.78E-02	5.54E-02	4.10E-02	4.72E-02	3.77E-02
Curium-242	2.44E-04	1.87E-04	1.73E-04	1.68E-04	1.39E-04	9.92E-05
Curium-243/244	1.79E-03	1.88E-03	1.80E-03	1.32E-03	1.55E-03	1.23E-03
Strontium-89/90	1.55E+01	1.06E+01	7.09E+00	4.55E+00	2.65E+00	1.67E+00
Technetium-99	2.09E-01	1.65E-01	1.40E-01	1.65E-01	1.62E-01	1.59E-01

Table 3. Averaged Analytical Results for the Solids Analyses.

Sampling Times (Months)	**2**	**6**	**12**	**2**	**6**	**12**
Reagent Molarity	**0.02**	**0.02**	**0.02**	**0.04**	**0.04**	**0.04**
Units	**(µg/g)**	**(µg/g)**	**(µg/g)**	**(µg/g)**	**(µg/g)**	**(µg/g)**
Aluminum	1.07E+04	1.22E+04	2.18E+04	1.12E+04	1.25E+04	2.32E+04
Barium	6.11E+01	1.18E+02	1.35E+02	8.62E+01	8.98E+01	2.39E+02
Calcium	5.78E+02	-	6.77E+02	7.41E+02	-	7.92E+02
Chromium	6.66E+02	7.43E+02	6.38E+02	5.97E+02	4.23E+02	7.01E+02
Iron	1.82E+02	2.24E+02	1.46E+02	1.09E+02	-	1.22E+02
Lanthanum	3.30E+01	-	4.36E+01	2.70E+01	-	3.75E+01
Manganese	6.93E+03	7.60E+03	7.45E+03	9.27E+03	5.70E+03	1.07E=04
Neodymium	5.80E+01	-	4.62E+01	6.10E+01	-	4.30E+01
Nickel	2.59E+02	5.71E+02	2.79E+02	2.95E+02	-	2.58E+02
Phosphorus	1.27E+03	1.83E+03	1.63E+03	1.21E+03	1.98E+03	1.18E+03
Sodium	1.60E+05	1.60E+05	1.69E+05	1.73E+05	1.44E+05	1.50E+05
Strontium	2.95E+03	7.40E+03	8.34E+03	4.97E+03	6.78E+03	1.56E+04
Sulfur	3.37E+03	-	3.23E+03	3.44E+03	3.08E+03	3.00E+03
TIC	1.03E+04	1.03E+04	1.34E+04	9.64E+03	1.03E+04	1.33E+04
TOC	1.85E+04	1.84E+04	1.89E+04	1.74E+04	1.74E+04	1.83E+04
Radioisotopes	**(µCi/g)**	**(µCi/g)**	**(µCi/g)**	**(µCi/g)**	**(µCi/g)**	**(µCi/g)**
Americium-241	2.73E-01	2.34E-01	2.44E-01	2.35E-01	1.68E-01	2.62E-01
Curium-242	1.11E-03	7.94E-04	9.50E-04	9.82E-04	8.27E-04	1.04E-03
Curium-243/244	8.22E-03	7.77E-03	7.47E-03	7.44E-03	5.97E-03	8.09E-03
Strontium-89/90	1.25E+02	2.83E+02	2.20E+02	1.29E+02	1.23E+02	2.07E+02
Technetium-99	9.37E-02	1.08E-01	1.05E-01	9.20E-02	9.76E-02	8.96E-02

Table 4. Analytical Results for the Untreated Supernate Sample.

Sampling Time (Month)	2	6	12
Analyte	**(µg/mL)**	**(µg/mL)**	**(µg/mL)**
Aluminum	1.51E+04	1.34E+04	1.44E+04
Cadmium	-	8.70E+01	6.21E+01
Calcium	4.87E+02	-	4.56E+02
Chromium	2.47E+02	2.45E+02	2.57E+02
Copper	2.42E+01	-	2.53E+01
Hydroxide	5.97E+03	4.39E+03	3.78E+03
Iron	2.65E+01	-	3.38E+01
Molybdenum	8.14E+01	-	5.29E+01
Nickel	4.13E+02	5.07E+02	4.41E+02
pH	13.6	13.4	13.4
Phosphorus	1.67E+03	1.98E+03	1.76E+03
Potassium	2.25E+03	-	2.49E+03
Sodium	2.45E+05	2.03E+05	2.52E+05
Sulfur	5.22E+03	4.77E+03	5.24E+03
Total inorganic carbon	1.44E+04	1.42E+04	1.18E+04
Total organic carbon	2.58E+04	2.02E+04	2.36E+04
Radioisotopes	**(µCi/mL)**	**(µCi/mL)**	**(µCi/mL)**
Americium-241	1.06E-01	1.03E-01	9.63E-02
Curium-242	5.19E-04	9.70E-04	3.35E-04
Curium-243/244	3.10E-03	3.37E-03	3.06E-03
Strontium-89/90	5.39E+01	5.35E+01	5.46E+01
Technetium-99	1.93E-01	1.57E-01	1.63E-01

Table 5 shows the different masses of liquid and solid portions after centrifuging the 12-month samples. The differences in masses for the liquid portions are primarily due to volumetric differences while sampling the 2- and 6-month liquid samples. The main difference is in the nature of the solids as indicated by the density. The untreated sample has a density of ~1.0; the treated samples' precipitates form solids with densities ranging between 1.28 and 1.74.

Table 5. Mass and Volume of 12-month Samples.

Sample ID	Reagent Concentration	Mass (g)		Volume (mL)		Density (g/mL)	
		Liquid	Solids	Liquid	Solids	Liquid	Solid
S12R000469	0.00 M	90.2	4.97	60.0	5.0	1.50	0.99
S12R000382	0.02 M	77.2	13.1	53.0	9.0	1.46	1.46
S12R000383	0.02 M	64.3	24.8	45.5	14.5	1.41	1.71
S12R000384	0.02 M	83.0	11.6	54.5	9.0	1.52	1.28
S12R000379	0.04 M	38.7	21.2	27.5	12.5	1.41	1.70
S12R000380	0.04 M	73.5	18.1	51.5	11.5	1.43	1.57
S12R000381	0.04 M	77.0	17.0	55.25	9.75	1.39	1.74

Tables 6 and 7 show the Am-241 and Sr-90 DF and percent removal values. As a general trend (also displayed in Figure 1), the curies of Am-241 removed stayed fairly consistent within the time frame. A slight variation is observable for the 0.04-M Am-241 removal. As for strontium, the amount of removed curies steadily increased over the course of the year.

The equations used to calculate the DF and the percent removed are:

$$DF = \text{concentration before treatment/concentration after treatment} \quad (3\text{-}1)$$

$$\%\ \text{Removal} = (1 - 1/DF)*100 \quad (3\text{-}2)$$

For the solids comparison with the 12-month sample and analyses, the average of the untreated AN-102 solids was used in the DF calculations.

Table 6. Americium-241 Decontamination Factors and Percent Removed. (Liquids)

Am-241		Untreated		0.02 M				0.04 M		
Liquid	Sample ID	(µCi/mL)	Sample ID	(µCi/mL)	DF	% Removal	Sample ID	(µCi/mL)	DF	% Removal
2-month			S11R000407	6.60E-02	1.61	44.1	S11R000386	3.98E-02	2.77	63.9
			S11R000594	5.93E-02	1.79	45.1	S11R000588	3.83E-02	2.66	62.4
	S11R000600	1.06E-01	S11R000597	5.83E-02	1.82	37.9	S11R000591	4.48E-02	2.37	57.8
	Average	**1.06E-01**		**6.12E-02**	**1.74**	**42.4**		**4.10E-02**	**2.60**	**61.4**
6-month			S11R000408	6.17E-02	1.67	40.1	S11R000387	4.55E-02	2.26	55.8
			S11R000624	6.30E-02	1.63	39.8	S11R000618	4.01E-02	2.57	61.1
			S11R000627	6.21E-02	1.66	38.7	S11R000621	4.43E-02	2.33	57.1
	S11R000630	1.03E-01	S12R000153	4.45E-02	2.31	56.8	S12R000155	5.89E-02	1.75	42.8
	Average	**1.03E-01**		**5.78E-02**	**1.82**	**43.9**	**Average**	**4.72E-02**	**2.23**	**54.1**
12-month			S12R000430	5.50E-02	1.75	42.9	S12R000421	3.77E-02	2.55	60.9
			S12R000431	5.50E-02	1.75	42.9	S12R000422	3.75E-02	2.57	61.1
			S12R000432	5.88E-02	1.64	38.9	S12R000423	3.63E-02	2.65	62.3
			S12R000433	5.23E-02	1.84	45.7	S12R000424	3.60E-02	2.68	62.6
			S12R000434	5.16E-02	1.87	46.4	S12R000425	3.55E-02	2.71	63.1
			S12R000435	5.41E-02	1.78	43.8	S12R000426	3.50E-02	2.75	63.7
	S12R000439	9.45E-02	S12R000436	5.68E-02	1.70	41.0	S12R000427	4.13E-02	2.33	57.1
	S12R000440	1.02E-01	S12R000437	5.78E-02	1.67	40.0	S12R000428	4.12E-02	2.34	57.2
	S12R000441	9.25E-02	S12R000438	5.73E-02	1.68	40.5	S12R000429	3.90E-02	2.47	59.5
	Average	**9.63E-02**		**5.54E-02**	**1.74**	**42.5**	**Average**		**2.56**	**60.8**

Table 7. Americium-241 Decontamination Factors and Percent Removed. (Solids)

Solids	Sample ID	(µCi/g)	Sample ID	(µCi/g)	DF	% Removal	Sample ID	(µCi/g)	DF	% Removal
2-month	NA		S11R000566	2.73E-01			S11R000564	2.35E-01		
	Average			2.73E-01			**Average**	2.35E-01		
6-month	NA									
			S11R000567	2.83E-01	NA	NA	S11R000565	1.61E-01	NA	NA
			S12R000154	1.85E-01	NA	NA	S12R000156	1.74E-01	NA	NA
	Average			**2.34E-01**			**Average**	**1.68E-01**		
12-month			S12R000412	2.80E-01	0.28	-258.06	S12R000403	2.13E-01	0.37	-172.38
			S12R000413	2.71E-01	0.29	-246.55	S12R000404	2.21E-01	0.35	-182.61
			S12R000414	2.93E-01	0.27	-274.68	S12R000405	2.15E-01	0.36	-174.94
			S12R000415	1.55E-01	0.50	-98.21	S12R000406	2.94E-01	0.27	-275.96
			S12R000416	1.70E-01	0.46	-117.39	S12R000407	2.85E-01	0.27	-264.45
			S12R000417	1.66E-01	0.47	-112.28	S12R000408	2.83E-01	0.28	-261.89
			S12R000418	2.96E-01	0.26	-278.52	S12R000409	2.87E-01	0.27	-267.01
	S12R000474	7.83E-02	S12R000419	2.80E-01	0.28	-258.06	S12R000410	2.83E-01	0.28	-261.89
	S12R000475	7.81E-02	S12R000420	2.82E-01	0.28	-260.61	S12R000411	2.78E-01	0.28	-255.50
	Average	**7.82E-02**		**2.44E-01**	**0.34**	**-211.59**	**Average**	**2.62E-01**	0.30	-235.18

NOTE: The negative percent removal indicates accumulation of material in the solid fraction.

Table 8. Strontium-90 Decontamination Factors and Percent Removed. (Liquids)

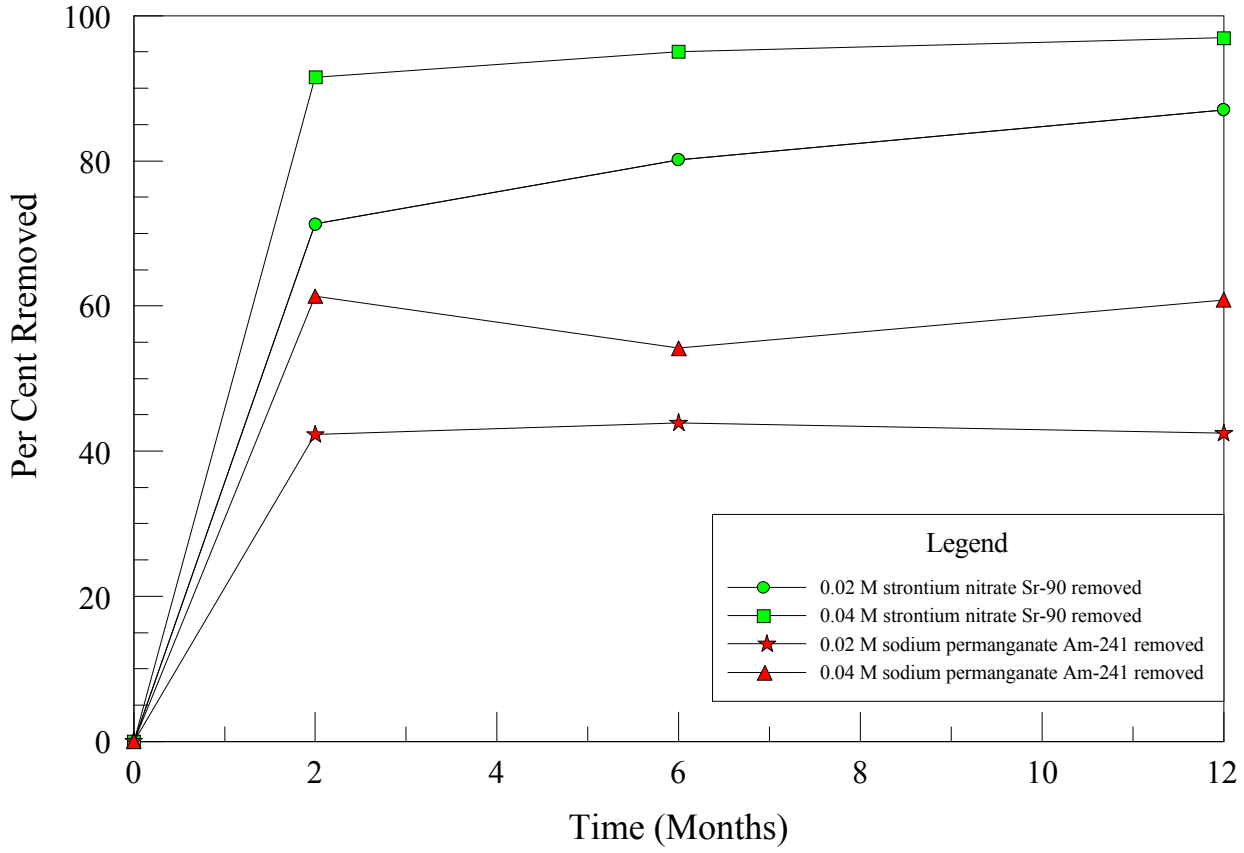
Sr-90		Untreated		0.02 M				0.04 M		
Liquid	Sample ID	(µCi/mL)	Sample ID	(µCi/mL)	DF	% Removal	Sample ID	(µCi/mL)	DF	% Removal
2-month	S11R000600	5.39E+01	S11R000407	2.00E+01	2.70E+00	62.89	S11R000386	4.53E+00	1.19E+01	91.60
			S11R000594	1.70E+01	3.17E+00	68.46	S11R000588	4.06E+00	1.33E+01	92.47
			S11R000597	9.42E+00	5.72E+00	82.52	S11R000591	5.07E+00	1.06E+01	90.59
	Average	**5.39E+01**		**1.55E+01**				**4.55E+00**		
6-month	S11R000630	5.35E+01	S11R000408	1.25E+01	4.28E+00	76.64	S11R000387	2.42E+00	2.21E+01	95.48
			S11R000624	1.22E+01	4.39E+00	77.20	S11R000618	2.44E+00	2.19E+01	95.44
			S11R000627	7.10E+00	7.54E+00	86.73	S11R000621	3.10E+00	1.73E+01	94.21
	Average	**5.35E+01**	**1.06E+01**		**5.40**	**80.19**	**Average**	**2.65E+00**	**2.04E+01**	**95.04**
12-month			S12R000430	7.32E+00	7.46E+00	86.59	S12R000421	1.63E+00	3.35E+01	97.01
			S12R000431	7.51E+00	7.27E+00	86.25	S12R000422	1.67E+00	3.27E+01	96.94
			S12R000432	7.61E+00	7.17E+00	86.06	S12R000423	1.49E+00	3.66E+01	97.27
			S12R000433	8.92E+00	6.12E+00	83.66	S12R000424	1.40E+00	3.90E+01	97.44
			S12R000434	8.64E+00	6.32E+00	84.18	S12R000425	1.48E+00	3.69E+01	97.29
			S12R000435	8.62E+00	6.33E+00	84.21	S12R000426	1.46E+00	3.74E+01	97.33
	S12R000439	5.49E+01	S12R000436	4.87E+00	1.12E+01	91.08	S12R000427	1.97E+00	2.77E+01	96.39
	S12R000440	5.52E+01	S12R000437	5.15E+00	1.06E+01	90.57	S12R000428	2.10E+00	2.60E+01	96.15
	S12R000441	5.38E+01	S12R000438	5.17E+00	1.06E+01	90.53	S12R000429	1.83E+00	2.98E+01	96.65
	Average	**5.46E+01**		**7.09E+00**	**7.09E+00**	**87.01**	**Average**	**1.67E+00**	**3.33E+01**	**96.94**

Table 9. Strontium-90 Decontamination Factors and Percent Removed. (Solids)

Solids	Sample ID	(µCi/mL)	Sample ID	(µCi/g)	DF	% Removal	Sample ID	(µCi/g)	DF	% Removal[a]
2-month	NA		S11R000566	1.25E+02			S11R000564	1.29E+02		
	Average			**1.25E+02**			**Average**	**1.29E+02**		
6-month	NA									
			S11R000567	2.83E+02	NA	NA	S11R000565	1.23E+02	NA	NA
	Average			**2.83E+02**			**Average**	**1.23E+02**		
12-month			S12R000412	2.66E+02	1.43E-01	-600.922	S12R000403	1.80E+02	2.11E-01	-374.308
			S12R000413	2.53E+02	1.50E-01	-566.667	S12R000404	1.90E+02	2.00E-01	-400.659
			S12R000414	2.52E+02	1.51E-01	-564.032	S12R000405	1.67E+02	2.27E-01	-340.053
			S12R000415	1.05E+02	3.61E-01	-176.68	S12R000406	2.17E+02	1.75E-01	-471.805
			S12R000416	1.31E+02	2.90E-01	-245.191	S12R000407	2.20E+02	1.73E-01	-479.71
			S12R000417	1.26E+02	3.01E-01	-232.016	S12R000408	2.26E+02	1.68E-01	-495.52
			S12R000418	2.92E+02	1.30E-01	-669.433	S12R000409	2.30E+02	1.65E-01	-506.061
	S12R000474	3.84E+01	S12R000419	2.76E+02	1.38E-01	-627.273	S12R000410	2.34E+02	1.62E-01	-516.601
	S12R000475	3.75E+01	S12R000420	2.82E+02	1.35E-01	-643.083	S12R000411	1.95E+02	1.95E-01	-413.834
	Average	**3.80E+01**		**2.20E+02**	**2.00E-01**	**-480.59**	**Average**	**2.07E+02**	**1.86E-01**	**-444.28**

Note: The negative percent removal indicates accumulation of material in the solid fraction.

Figure 1. Percent Removed over Time for Am-241 and Sr-90 from Tank 241-AN-102 Treated Supernate.



Strontium-90 and TRU removal is required for the ILAW glass made from the supernate of the waste tanks to meet the class C waste limits incorporated in Specification 2.2.2.8 of the WTP contract (DE-AC27-01RV 14136). These limits are 100 nCi/g for TRU and 20 Ci/m^3 for Sr-90. By using an assumed sodium oxide loading for ILAW and assumed glass density, the ratios of radionuclide concentration to sodium molarity for the supernate needed to meet these limits can be calculated. These calculations are shown in Appendix D. As with previous evaluations of this precipitation process, the target removal is 50% of the ILAW limits (50 nCi/g for TRU and 10 Ci/m^3 for Sr-90). These targets are conservatively selected (see RPP-24809, *Strontium and TRU Separation Process in the DST System*) and allow for uncertainties in characterization data and removal efficiency.

Table 10 presents ratios of μCi radionuclide to mole sodium for the untreated supernate and for the supernates treated with 0.02-M and 0.04-M reagent solutions. The results shown are averages of the samples taken at each time interval. The concentration ratios needed to meet ILAW limits and to meet 50% of ILAW limits are shown.

Table 10. Results of Tank 241-AN-102 Supernate Treated with 0.02-M and with 0.04-M Reagent Solution.

	Sodium	Am-241		Sr-90	
	(mol)	(µCi)	(µCi per mole Na)	(µCi)	(µCi per mole Na)
Concentration to meet ILAW limits			< 1.53E+01		< 1.19E+03
Target concentration for 50% of ILAW limits			<7.65E+00		<5.95E+02
Untreated Waste					
2-month	1.0	1.06E+01	9.95E+00	5.39E+03	5.06E+03
6-month	0.9	1.03E+01	1.17E+01	5.35E+03	6.06E+03
12-month	1.1	9.63E+00	8.79E+00	5.46E+03	4.98E+03
0.02-M treatment					
2-month	0.9	5.88E+00	6.79E+00	1.49E+03	1.73E+03
6-month	1.0	5.55E+00	5.43E+00	1.02E+03	9.96E+02
12-month	1.1	5.32E+00	4.97E+00	6.81E+02	6.36E+02
0.04-M treatment					
2-month	0.9	3.77E+00	4.33E+00	4.20E+02	4.84E+02
6-month	1.0	4.34E+00	4.44E+00	2.44E+02	2.50E+02
12-month	0.9	3.47E+00	3.77E+00	1.54E+02	1.67E+02

As shown in Table 10, the Am-241 concentration for the untreated 241-AN-102 sample is below the concentration needed to meet ILAW limits, although above the target concentration to meet 50% of the ILAW limits. The Sr-90 concentration for the untreated supernate is well above the target concentration. The treated supernate at 12 months meets the target concentrations for Am-241 for both the 0.02-M and 0.04-M reagent concentrations. However, as to the Sr-90, only the 0.04-M concentration of strontium nitrate meets the 50% ILAW limits. It would therefore appear from the data that an optimization of the strike molarities of permanganate and strontium nitrate is necessitated. In regard to the primary study question for this testing, the Am-241 and Sr-90 concentrations in the supernate are steady over time, thus indicating that no significant re-solvation of the precipitates is occurring.

As for the analytes of lesser interest, the range of TIC exhibited by the untreated supernate average (2-month sample to 12-month sample) was from 1.44 E+04 µg/mL to 1.18 E+04 µg/mL; the 0.02-M treated supernate ranged from 1.35E+04 ug/mL to 1.33E+04 µg/mL; and the 0.04-M treated supernate average range was from 1.23E+04 ug/mL to 1.26E+04 ug/mL. These analytes were essentially unchanged over the course of the 12-month period.

The TIC for the solids portion ranged from 1.03E+04 ug/mL to 1.34E+04 ug/g for the 0.02-M treated sample and 9.64E+03 ug/mL to 1.33E+04 ug/g for the 0.04-M treated sample.

Likewise, aluminum was relatively unchanged over the course of the 12-month period. The 0.02-M treated supernate analyses showed an average of 1.25E+04 ug/mL to 1.07E+04 ug/mL. The 0.04-M treated supernate showed an average range of 1.29E+04 ug/mL to 8.73E+03 ug/mL. The solid analyses did indicate a slight increase in aluminum, the averages ranging from

1.07E+04 ug/g to 2.18E+04 ug/g for the 0.02-M treated sample. For the 0.04-M treated sample, the averages ranged from 1.12E+04 ug/g to 2.32E+04 ug/g.

Chromium, however, did exhibit a response to the treatment. Table 11 shows the associated DF for the 0.02-M and 0.04-M treated supernate. The untreated sample chromium analysis was 2.5E+02 ug/mL over all three sample times. As can be seen from Table 11, a removal of chrome was effected by permanganate. The valence state of chrome in the tank supernate is taken to be Cr(VI), while the valence state in the sludge is taken to be Cr(III). Albeit complete speculation at this time, it is possible that the mineralization of the organic chelating agents by the sodium permanganate releases enough protons to reduce a portion of the Cr(VI) to Cr(III). However, an alternative postulate is that the chrome in the supernate is Cr(III) and complexed. If that is so, then the permanganate will release the chrome as it does the Am-241.

Table 11. Decontamination Factor for Chromium from Treated Supernate.

	Supernate			
	0.02-M Treatment		0.04-M Treatment	
	DF	% Removal	DF	% Removal
2-month	2.04	50.9	2.95	66.1
6-month	1.83	45.4	3.50	71.4
12-month	1.99	49.8	4.12	75.7
	Solids			
	0.02-M Treatment[a]		0.04-M Treatment[a]	
12-month	2.84E-01	-252.4	2.58E-01	-287.5
[a]Negative values indicate an accumulation				

4 CONCLUSIONS AND RECOMMENDATIONS

The data indicate that there is little redissolution from the solids to the supernate over the 12-month time period.

The target for the Am-241 and Sr-90 μCi to sodium mole ratio has been achieved and maintained during this time frame. From Table 10, it is apparent that the higher molarity of strontium nitrate and sodium permanganate is more effective in attaining the target Am-241 and Sr-90 μCi to sodium mole ratio. Both concentrations appear to achieve the AN-102 target; however, the 0.04 M appears to give more margin of safety for AN-102. The efficacy of this approach will have to be evaluated against AN-107 over an extended period of time.

There is an aspect that needs further consideration in a path forward for the use of a permanganate strike, as pointed out in the executive summary (PNNL-10766, *Removal of Strontium and Transuranics from Hanford Tank Waste via Addition of Metal Cations and Chemical Oxidant-FY 1995 Test Results*). That issue is shown below.

Table 12. Estimated Pounds of Solids from Permanganate/Strontium Nitrate Addition.

Treatment	Solids Formation (g)	Original Supernate (mL)	Solids Formation (g/mL Original Supernate)	Corrected Solids Formation*		Solids Addition in Tank 241-AN-102 Due to Treatment**	
				(g/mL Original Supernate)	(lbs/gal Original Supernate)	(lbs)	Metric tons
Untreated	4.97	100	0.05	--	--	-	
0.02 M	16.5	96	0.17	0.12	1.00	8.85E+05	401
0.04 M	18.8	92	0.20	0.15	1.25	1.11E+06	502

* "Corrected solids formation" excludes solids formed in the untreated sample.
** According to HNF-EP-0182, *Waste Tank Summary for Month Ending January 31, 2013*, Tank 241-AN-102 contains 885,000 gal of supernate.

By using the mass of solids formed in the testing vials and assuming a linear relationship, approximately 400 to 500 metric tons of additional waste (solids) would form in the tank chosen for the supernate treatment. The underlying assumptions are an equal level of mixing of the target material and the same temperatures and durations of exposure to the oxidants.

At least two unknowns remain: A) whether the newly generated solids are easily retrievable, and B) what impact the newly generated mass of solids will have on the operation of the WTP process.

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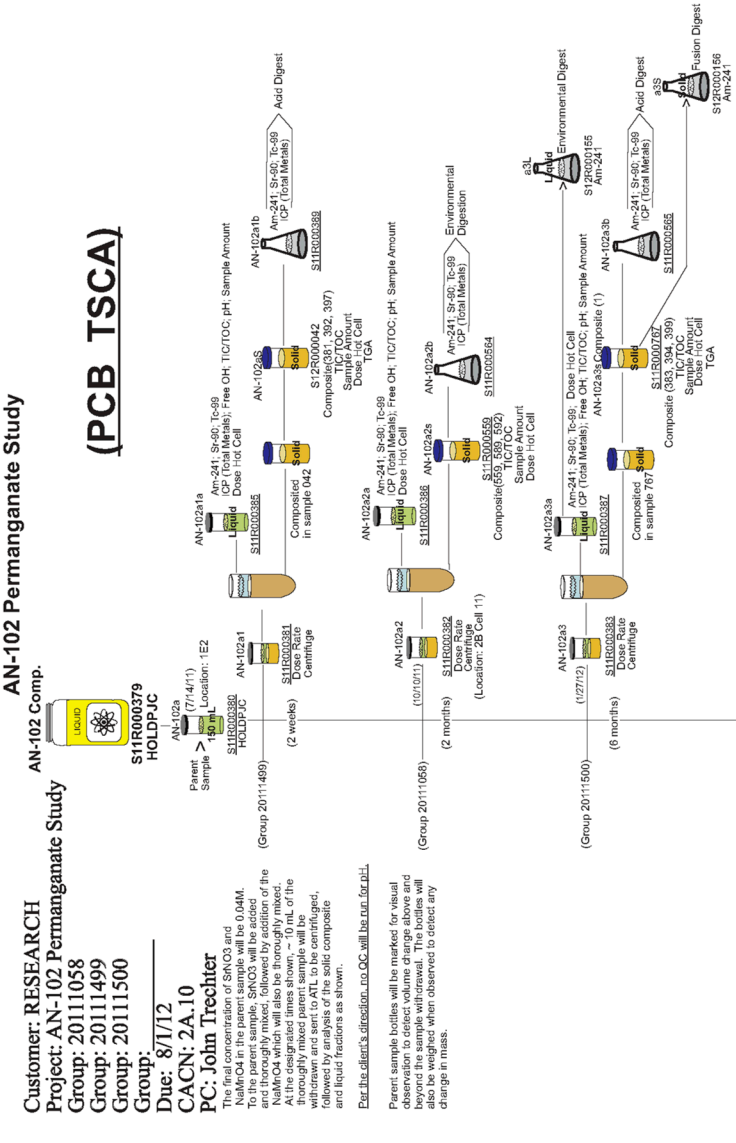
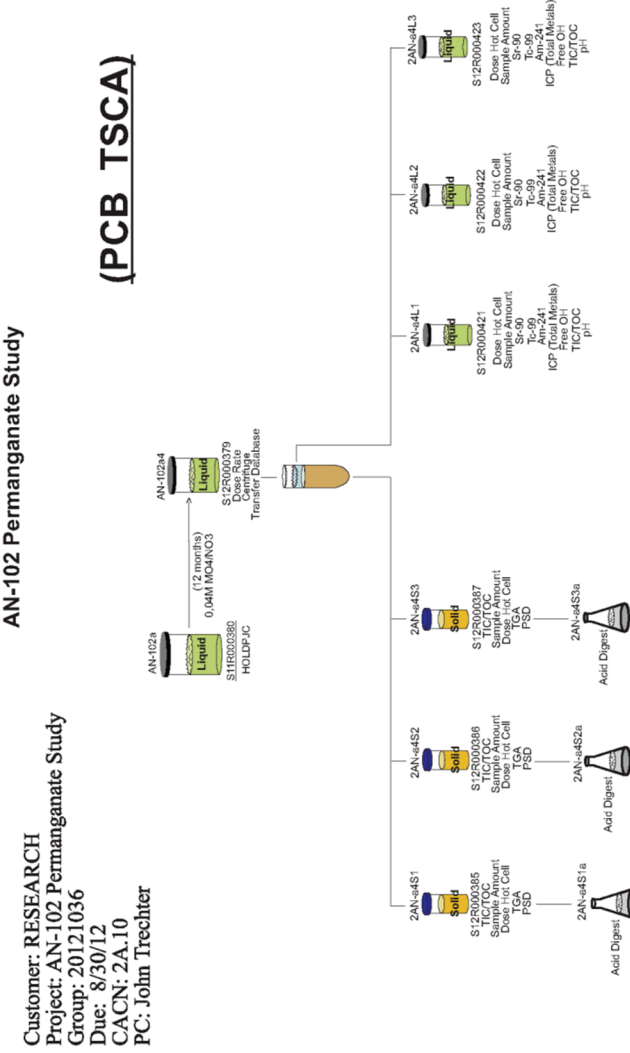
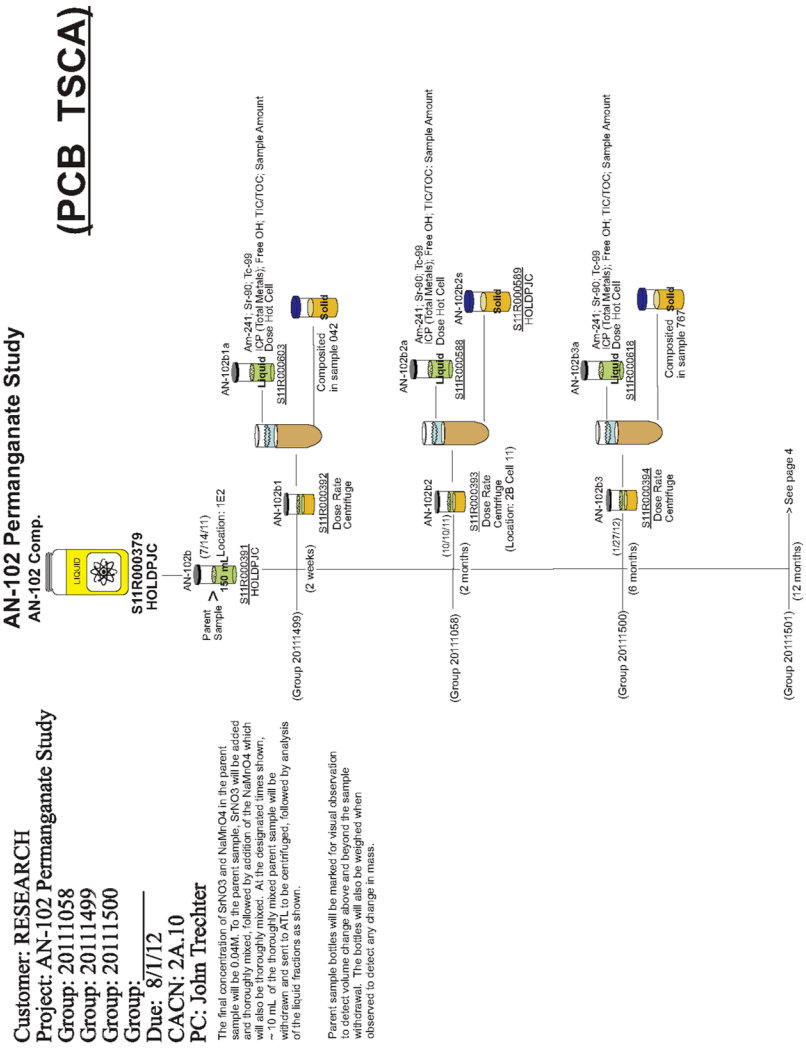
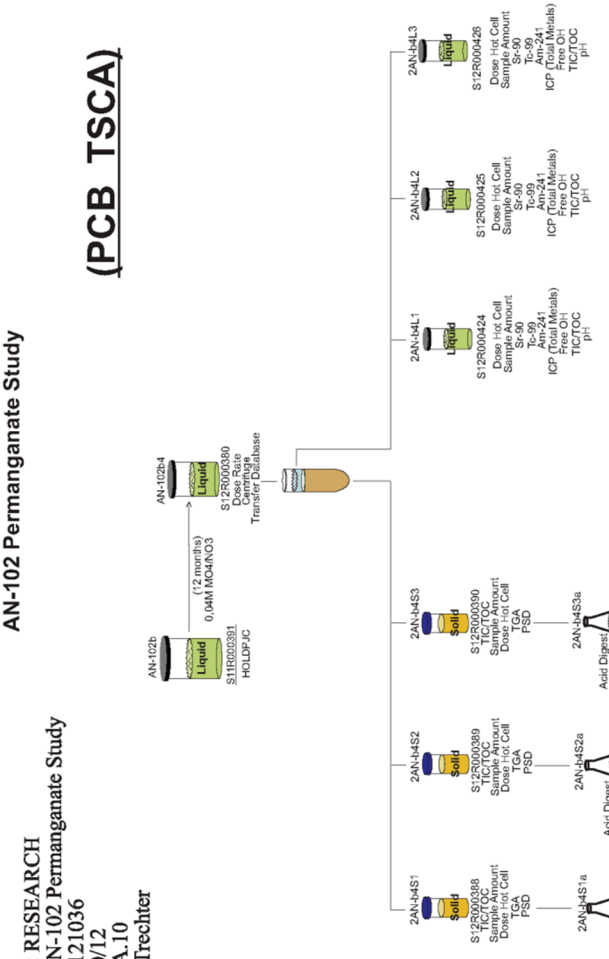
Appendix A

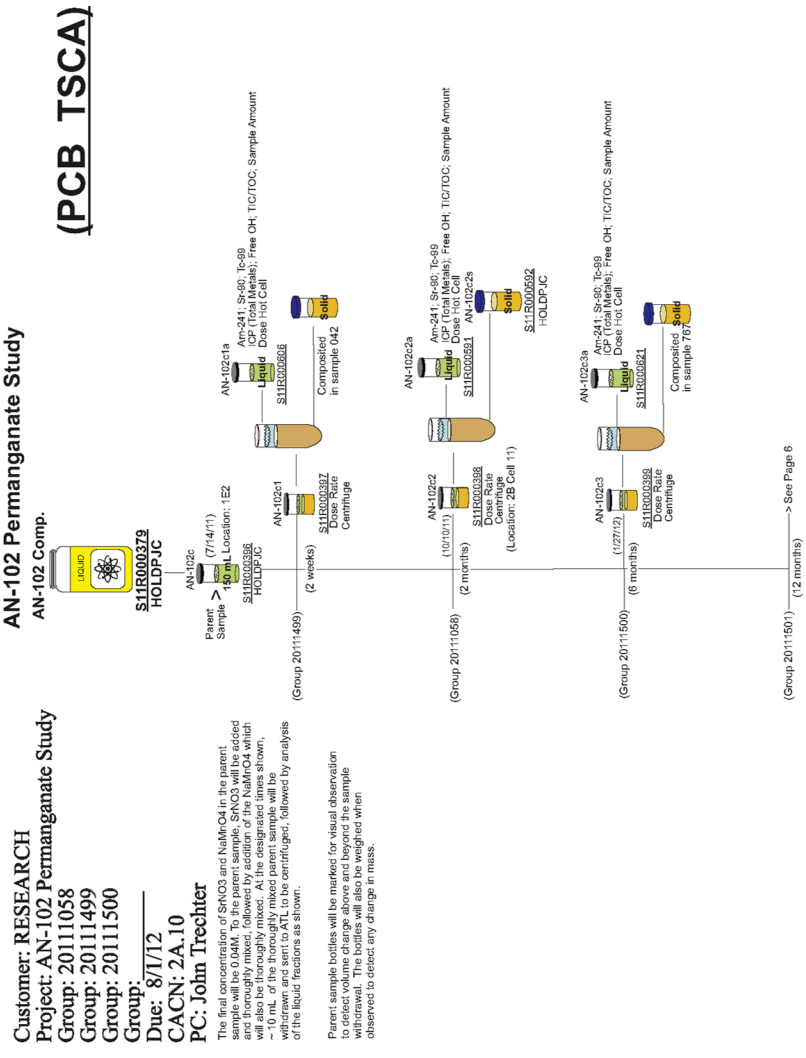
Sample Breakdown Diagrams

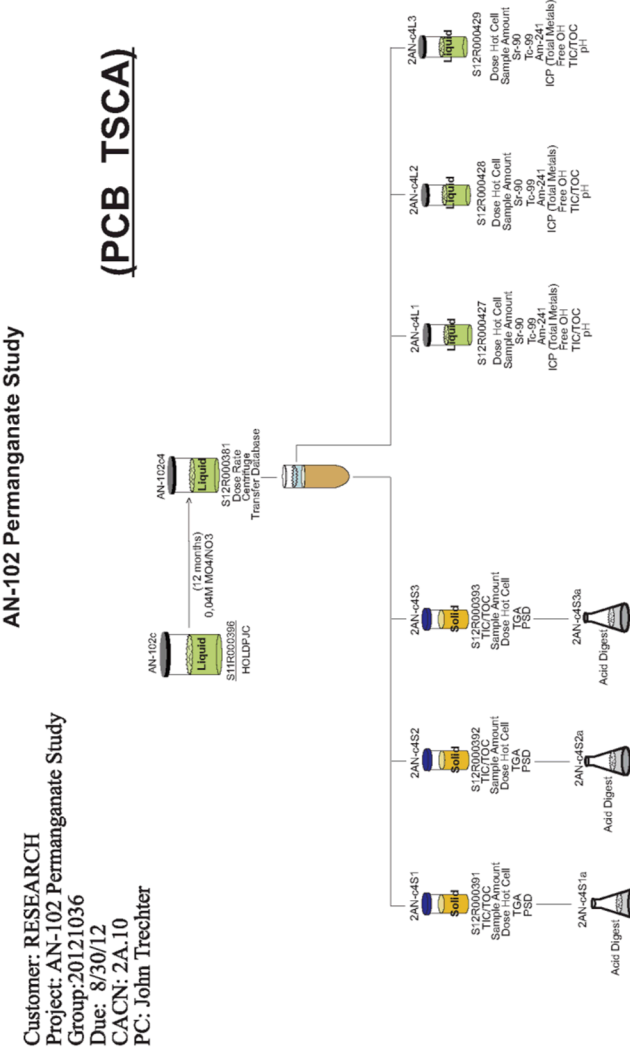

AN-102 Permanganate Study
AN-102 Comp.
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group: 20111058
Group: 20111499
Group: 20111500
Group:
Due: 8/1/12
CACN: 2A.10
PC: John Trechter
The final concentration of SrNO3 and NaMnO4 in the parent sample will be 0.04M. To the parent sample, SrNO3 will be added and thoroughly mixed, followed by addition of the NaMnO4 which will also be thoroughly mixed. At the designated times shown, ~ 10 mL of the thoroughly mixed parent sample will be withdrawn and sent to AL to be centrifuged, followed by analysis of the solid composite and liquid fractions as shown.
Per the client's direction, no QC will be run for pH.
Parent sample bottles will be marked for visual observation to detect volume change above and beyond the sample withdrawal. The bottles will also be weighed when observed to detect any change in mass.
S11R000379
HOLDPJC
LIQUID
AN-102a
Parent Sample
(7/14/11)
Location: 1E2
150 mL
S11R000380
HOLDPJC
(Group 20111499)
AN-102a1
S11R000381
Dose Rate
Centrifuge
(2 weeks)
(Group 20111058)
AN-102a2
(10/10/11)
S11R000382
Dose Rate
Centrifuge
(Location: 2B Cell 11)
(2 months)
(Group 20111500)
AN-102a3
(1/27/12)
S11R000383
Dose Rate
Centrifuge
(6 months)
(Group 20111501)
(12 months)
> See page 2
AN-102a1a
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
Liquid
Dose Hot Cell
S11R000385
Composited
in sample 042
AN-102a1b
Am-241; Sr-90; Tc-99
ICP (Total Metals)
Acid Digest
S11R000388
AN-102aS
Solid
S12R000042
Composite(381, 392, 397)
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
AN-102a2a
Am-241; Sr-90; Tc-99
(ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
Liquid
Dose Hot Cell
S11R000386
AN-102a2s
Solid
S11R000559
Composite(559, 560, 562)
TIC/TOC
Sample Amount
Dose Hot Cell
AN-102a2b
Am-241; Sr-90; Tc-99
ICP (Total Metals)
Environmental
Digestion
S11R000564
AN-102a3a
Am-241; Sr-90; Tc-99; Dose Hot Cell
ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
Liquid
S11R000387
Composited
in sample 767
AN-102a3s Composite (*)
Solid
S11R000767
Composite (383, 394, 399)
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
AN-102a3b
Am-241; Sr-90; Tc-99
ICP (Total Metals)
Acid Digest
S11R000565
a3L
Liquid
Environmental Digest
S12R000155
Am-241
a3S
Solid
Fusion Digest
S12R000156
Am-241

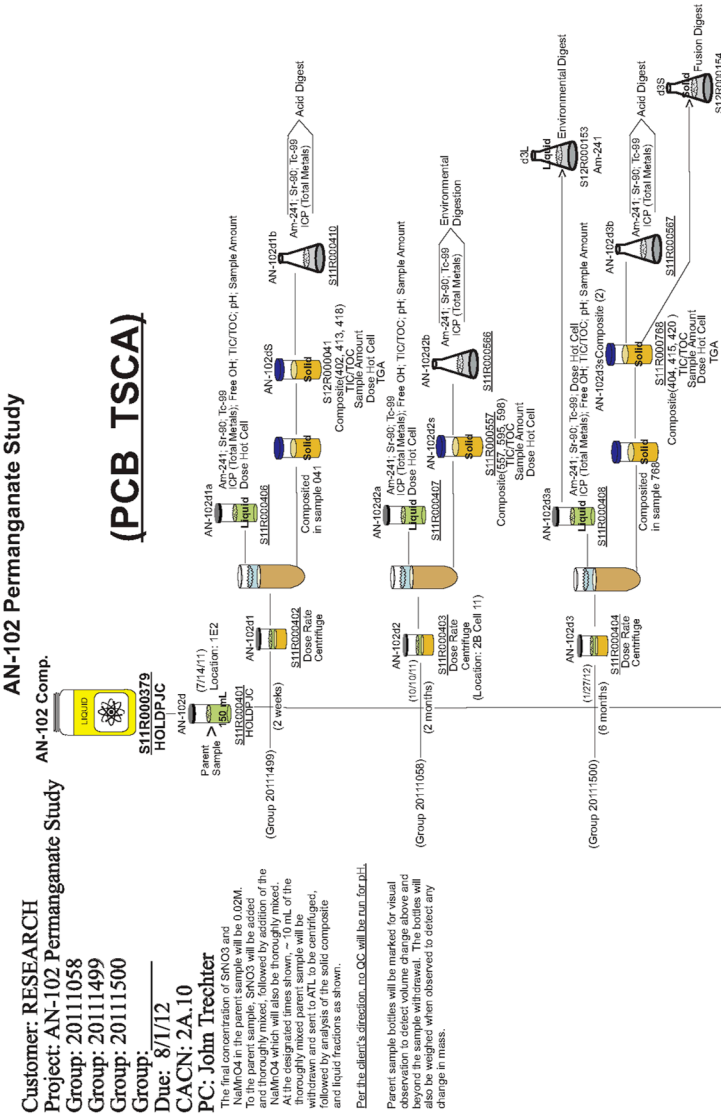

AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group: 20121036
Due: 8/30/12
CACN: 2A.10
PC: John Trechter
AN-102a
Liquid
S11R000380
HOLDP-IC
(12 months)
0.04M MO4/NO3
AN-102a4
Liquid
S12R000379
Dose Rate
Cesium Data
Transfer Database
2AN-a4S1
Solid
S12R000385
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-a4S1a
Acid Digest
S12R000403
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-a4S2
Solid
S12R000386
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-a4S2a
Acid Digest
S12R000404
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-a4S3
Solid
S12R000387
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-a4S3a
Acid Digest
S12R000405
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-a4L1
Liquid
S12R000421
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-a4L2
Liquid
S12R000422
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-a4L3
Liquid
S12R000423
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH

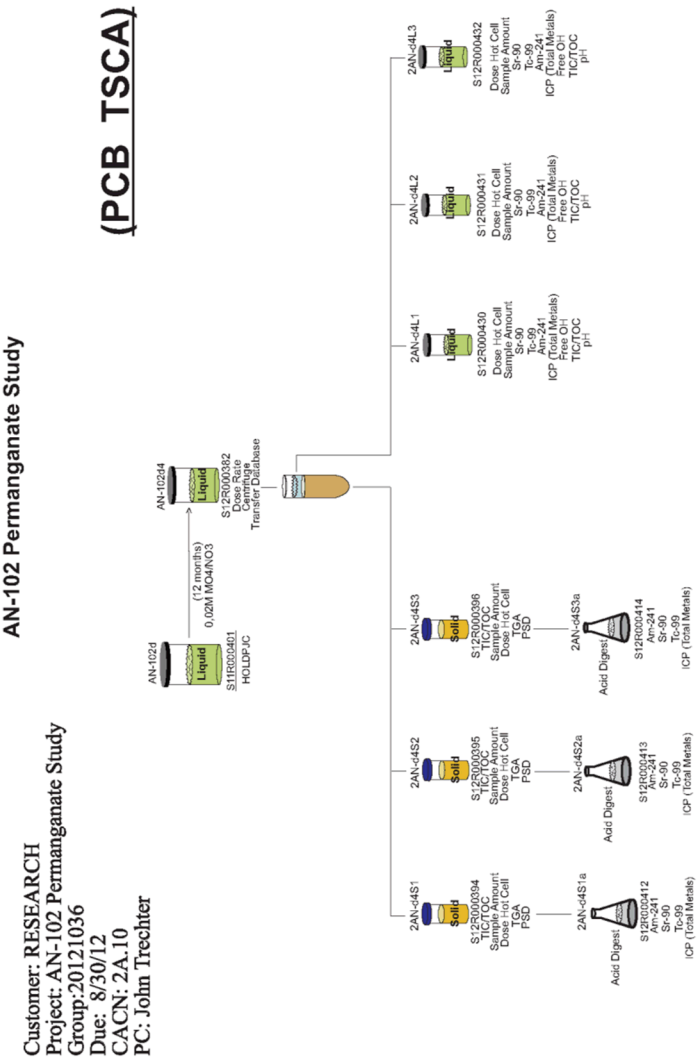

AN-102 Permanganate Study
AN-102 Comp.
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group: 20111058
Group: 20111499
Group: 20111500
Group:
Due: 8/1/12
CACN: 2A.10
PC: John Trechter
The final concentration of SrNO3 and NaMnO4 in the parent sample will be 0.04 M. The parent sample SrCO3 will be added and thoroughly mixed, followed by addition of the NaMnO4 which will also be thoroughly mixed. At the designated times shown, ~ 10 mL of the thoroughly mixed parent sample will be withdrawn and sent to ATL to be centrifuged, followed by analysis of the liquid fractions as shown.
Parent sample bottles will be marked for visual observation to detect volume change above and beyond the sample withdrawal. The bottles will also be weighed when observed to detect any change in mass.
LIQUID
S11R0000379
HOLDPJC
AN-102b
Parent Sample
(7/14/11)
150 mL
Location: 1E2
S11R0000381
HOLDPJC
(Group 20111499)
(2 weeks)
AN-102b1
S11R0000392
Dose Rate Centrifuge
AN-102b1a
Liquid
Am-241, Sr-90, Tc-99 ICP (Total Metals); Free OH, TIC/TOC; Sample Amount Dose Hot Cell
S11R0000603
Composited in sample 042
Solid
(Group 20111058)
(10/10/11)
(2 months)
AN-102b2
S11R0000393
Dose Rate Centrifuge
(Location: 2B Cell 11)
AN-102b2a
Liquid
Am-241, Sr-90, Tc-99 ICP (Total Metals); Free OH, TIC/TOC; Sample Amount Dose Hot Cell
S11R0000598
AN-102b2s
Solid
S11R0000599
HOLDPJC
(Group 20111500)
(1/27/12)
(6 months)
AN-102b3
S11R0000394
Dose Rate Centrifuge
AN-102b3a
Liquid
Am-241, Sr-90, Tc-99 ICP (Total Metals); Free OH, TIC/TOC; Sample Amount Dose Hot Cell
S11R0000618
Composited in sample 767
Solid
(Group 20111501)
(12 months)
See page 4

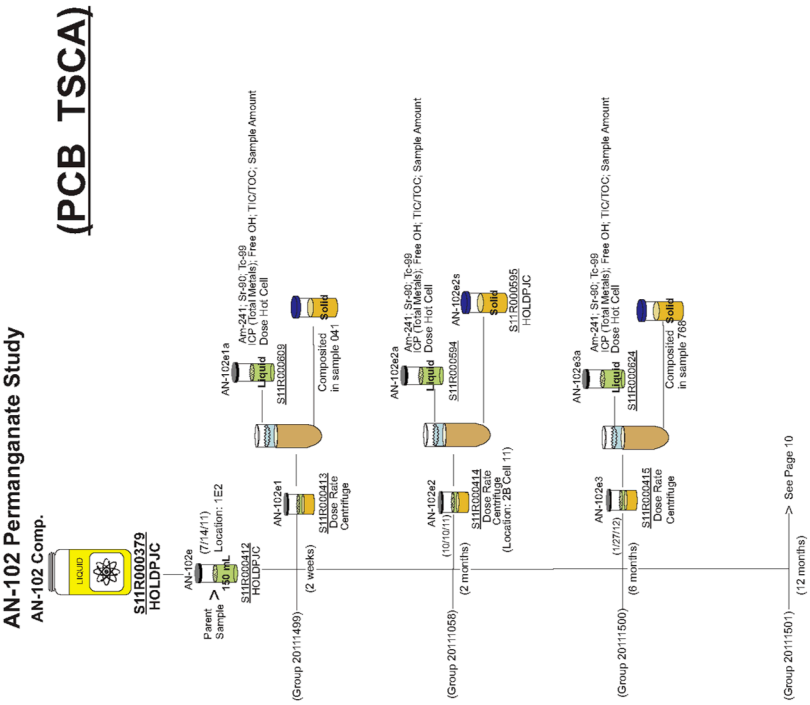

AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group:20121036
Due: 8/30/12
CACN: 2A.10
PC: John Trechter
AN-102b
Liquid
S11R000391
HOLDP-IC
(12 months)
0.04M MO4/NO3
AN-102b4
Liquid
S12R000380
Dose Rate
Calculation
Transfer Database
2AN-b4S1
Solid
S12R000388
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-b4S1a
Acid Digest
S12R000406
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-b4S2
Solid
S12R000389
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-b4S2a
Acid Digest
S12R000407
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-b4S3
Solid
S12R000390
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-b4S3a
Acid Digest
S12R000408
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-b4L1
Liquid
S12R000424
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-b4L2
Liquid
S12R000425
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-b4L3
Liquid
S12R000426
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH

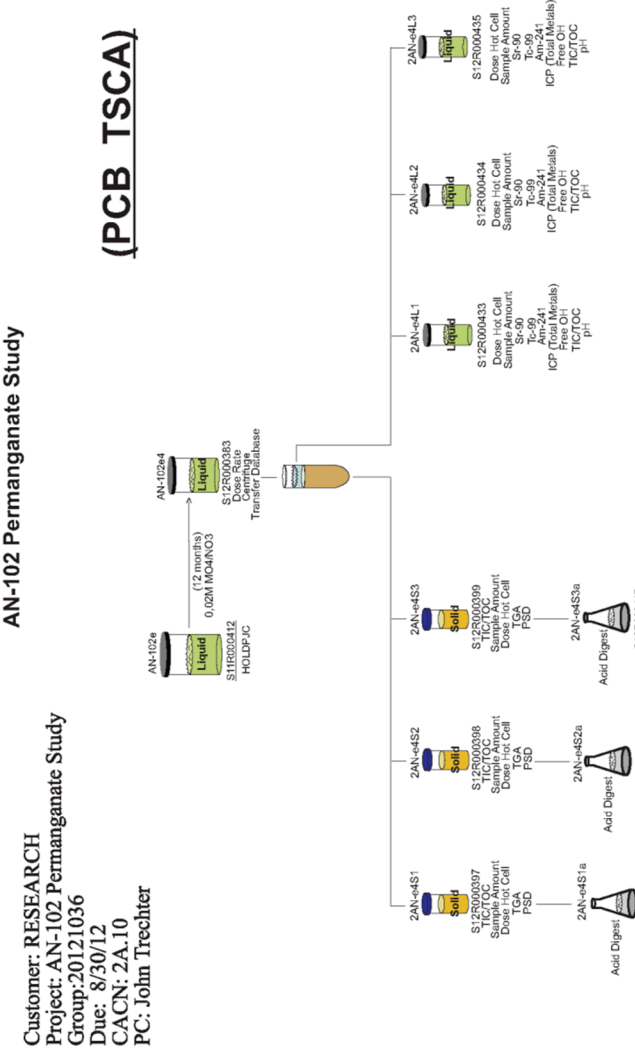

AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group: 20111058
Group: 20111499
Group: 20111500
Group:
Due: 8/1/12
CACN: 2A.10
PC: John Trechter
The final concentration of SrNO3 and NaMnO4 in the parent sample will be 0.04 M. The parent sample SOP will be added and thoroughly mixed, followed by addition of the NaMnO4 which will also be thoroughly mixed. At the designated times shown, ~ 10 mL of the thoroughly mixed parent sample will be withdrawn and sent to ATL to be centrifuged, followed by analysis of the liquid fractions as shown.
Parent sample bottles will be marked for visual observation to detect volume change above and beyond the sample withdrawal. The bottles will also be weighed when observed to detect any change in mass.
AN-102 Comp.
LIQUID
S11R000379
HOLDPJC
AN-102c
Parent Sample
(7/14/11)
150 mL
Location: 1E2
S11R000386
HOLDPJC
(Group 20111499)
AN-102c1
(2 weeks)
S11R000397
Dose Rate
Centrifuge
AN-102c1a
Liquid
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; Sample Amount
Dose Hot Cell
S11R000606
Composited
in sample 042
Solid
(Group 20111058)
AN-102c2
(10/10/11)
(2 months)
S11R000398
Dose Rate
Centrifuge
(Location: 2B Cell 11)
AN-102c2a
Liquid
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; Sample Amount
Dose Hot Cell
S11R000591
AN-102c2s
Solid
S11R000592
HOLDPJC
(Group 20111500)
AN-102c3
(1/27/12)
(6 months)
S11R000399
Dose Rate
Centrifuge
AN-102c3a
Liquid
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; Sample Amount
Dose Hot Cell
S11R000621
Composited
in sample 767
Solid
(Group 20111501)
(12 months)
> See Page 6

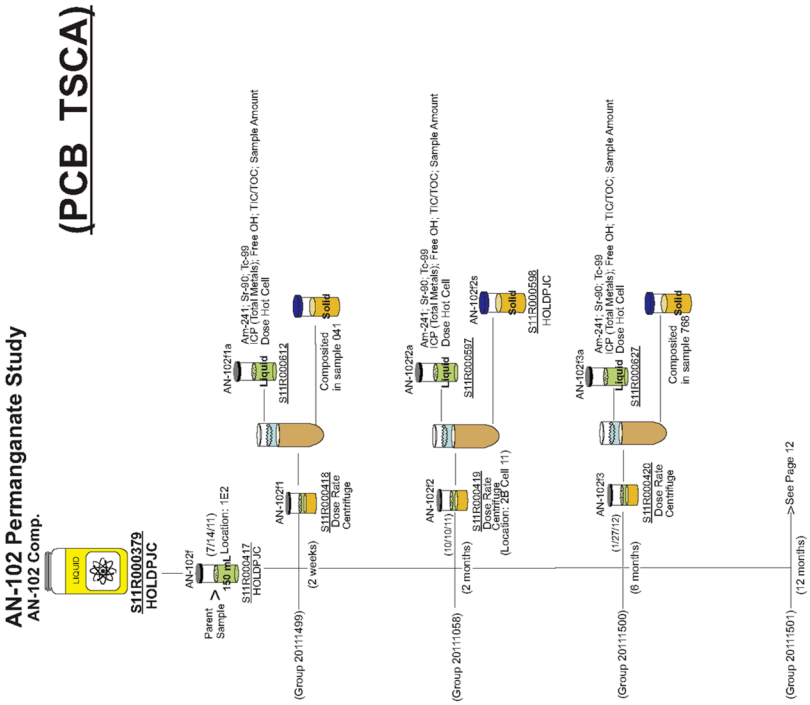

AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group:20121036
Due: 8/30/12
CACN: 2A.10
PC: John Trechter
AN-102c
Liquid
S11R000398
HOLDP-IC
(12 months)
0.04M MO4/NO3
AN-102c4
Liquid
S12R000381
Dose Rate
Sample Data
Transfer Database
2AN-c4S1
Solid
S12R000391
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-c4S1a
Acid Digest
S12R000409
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-c4S2
Solid
S12R000392
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-c4S2a
Acid Digest
S12R000410
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-c4S3
Solid
S12R000393
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-c4S3a
Acid Digest
S12R000411
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-c4L1
Liquid
S12R000427
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-c4L2
Liquid
S12R000428
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-c4L3
Liquid
S12R000429
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH

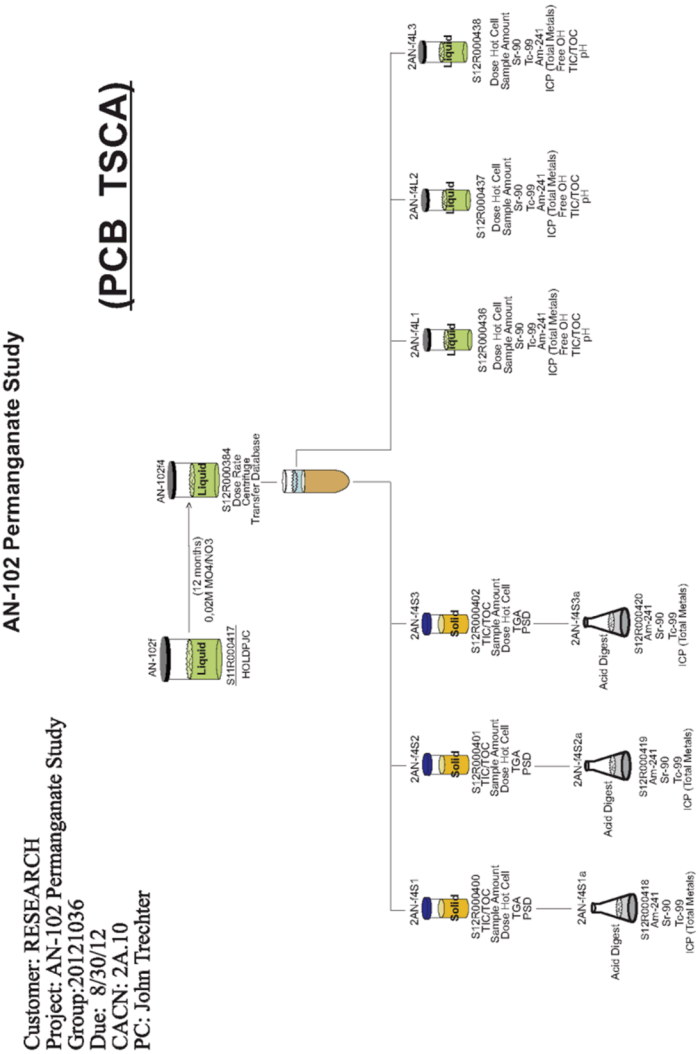

AN-102 Permanganate Study
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group: 20111058
Group: 20111499
Group: 20111500
Group:
Due: 8/1/12
CACN: 2A.10
PC: John Trechter
The final concentration of SnNO3 and NaMnO4 in the parent sample will be 0.02M. To the parent sample, SnNO3 will be added and thoroughly mixed, followed by addition of the NaMnO4 which will also be thoroughly mixed. At the designated times shown, ~ 10 mL of the thoroughly mixed parent sample will be withdrawn and used for ICP-MS determination, followed by analysis of the solid composite and liquid fractions as shown.
Per the client's direction, no QC will be run for pH.
Parent sample bottles will be marked for visual observation to detect volume change above and beyond the sample withdrawal. The bottles will also be weighed when observed to detect any change in mass.
AN-102 Comp.
LIQUID
S11R000379
HOLDP-JC
(PCB TSCA)
AN-102d
Parent Sample
(7/14/11)
Location: 1E2
50 mL
S11R000401
HOLDP-JC
(Group 20111499)
AN-102d1
(2 weeks)
S11R000402
Dose Rate
Centrifuge
AN-102d1a
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
Liquid
Dose Hot Cell
S11R000408
Composited
in sample 041
AN-102dS
Solid
S12R000041
Composite(402, 413, 418)
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
AN-102d1b
Am-241; Sr-90; Tc-99
ICP (Total Metals)
Acid Digest
S11R000410
(Group 20111058)
AN-102d2
(10/10/11)
(2 months)
S11R000403
Dose Rate
Centrifuge
(Location: 2B Cell 11)
AN-102d2a
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
Liquid
Dose Hot Cell
S11R000407
AN-102d2s
Solid
S11R000557
Composite(527, 595, 598)
TIC/TOC
Sample Amount
Dose Hot Cell
AN-102d2b
Am-241; Sr-90; Tc-99
ICP (Total Metals)
Environmental
Digestion
S11R000566
(Group 20111500)
AN-102d3
(1/27/12)
(6 months)
S11R000404
Dose Rate
Centrifuge
AN-102d3a
Am-241; Sr-90; Tc-99; Dose Hot Cell
Liquid
ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
S11R000408
Composited
in sample 768
AN-102d3s
Composite (2)
Solid
S11R000768
Composite(404, 415, 420)
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
cSL
Liquid
Environmental Digest
S12R000153
Am-241
AN-102d3b
Am-241; Sr-90; Tc-99
ICP (Total Metals)
Acid Digest
S11R000567
dSS
Solid
Fusion Digest
S12R000154
Am-241
(Group 20111501)
(12 months)
> See Page 8


AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group:20121036
Due: 8/30/12
CACN: 2A.10
PC: John Trechter
AN-102d
Liquid
S11R000401
HOLDP-IC
(12 months)
0.02M MO4/NO3
AN-10244
Liquid
S12R000382
Dose Rate
Cesium Data
Transfer Database
2AN-d4S1
Solid
S12R000394
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-d4S1a
Acid Digest
S12R000412
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-d4S2
Solid
S12R000395
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-d4S2a
Acid Digest
S12R000413
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-d4S3
Solid
S12R000396
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-d4S3a
Acid Digest
S12R000414
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-d4L1
Liquid
S12R000430
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-d4L2
Liquid
S12R000431
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-d4L3
Liquid
S12R000432
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH

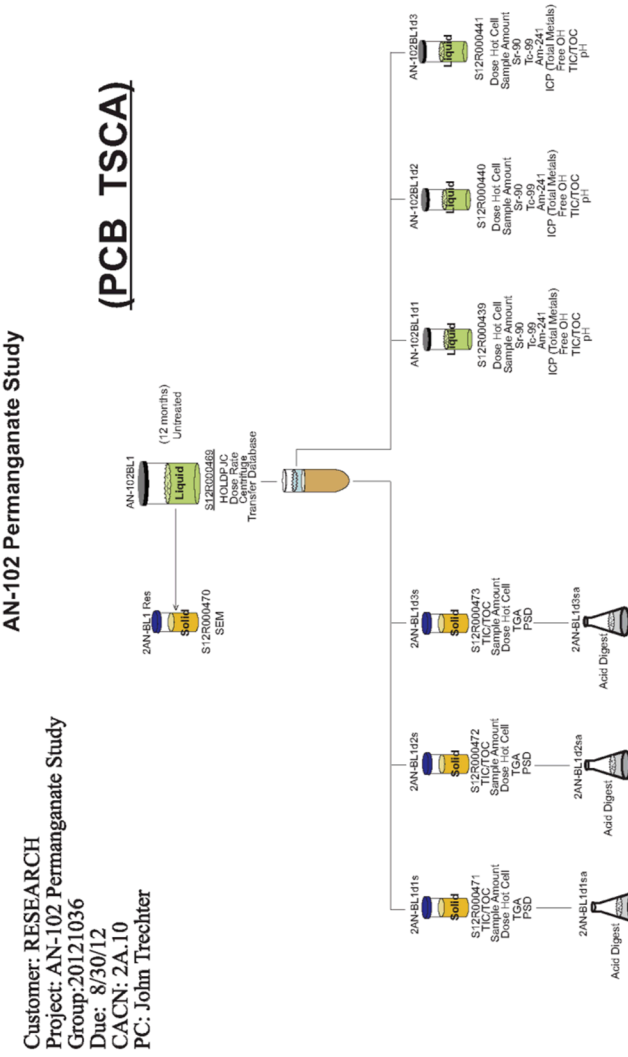

AN-102 Permanganate Study
(PCB TSCA)
AN-102 Comp.
LIQUID
S11R000379
HOLDPJC
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group: 20111058
Group: 20111499
Group: 20111500
Group:
Due: 8/1/12
CACN: 2A.10
PC: John Trechter
The final concentration of SnNO3 and NaMnO4 in the parent sample will be 0.02M. The parent sample SnO2 will be added and thoroughly mixed, followed by addition of the NaMnO4 which will also be thoroughly mixed. At the designated times shown, a 10 mL aliquot of the thoroughly mixed parent sample will be withdrawn and sent to ATL to be centrifuged, followed by analysis of the liquid fractions as shown.
Parent sample bottles will be marked for visual observation to detect volume change above and beyond the sample withdrawal. The bottles will also be weighed when observed to detect any change in mass.
AN-102e
(7/14/11)
Location: 1E2
Parent Sample
150 mL
S11R000412
HOLDPJC
(Group 20111499)
AN-102e1
(2 weeks)
S11R000413
Dose Rate
Centrifuge
AN-102e1a
Am-241; Sr-90; Tc-99
CP (Total Metals); Free OH; TIC/TOC; Sample Amount
Dose Hot Cell
Liquid
S11R000609
Composited in sample 041
Solid
AN-102e2
(10/10/11)
(2 months)
(Group 20111056)
S11R000414
Dose Rate
Centrifuge
(Location: 2B Cell 11)
AN-102e2a
Am-241; Sr-90; Tc-99
CP (Total Metals); Free OH; TIC/TOC; Sample Amount
Dose Hot Cell
Liquid
S11R000594
AN-102e2s
Solid
S11R000595
HOLDPJC
AN-102e3
(1/27/12)
(6 months)
(Group 20111500)
S11R000415
Dose Rate
Centrifuge
AN-102e3a
Am-241; Sr-90; Tc-99
CP (Total Metals); Free OH; TIC/TOC; Sample Amount
Dose Hot Cell
Liquid
S11R000624
Composited in sample 768
Solid
(12 months)
(Group 20111501)
> See Page 10


AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group:20121036
Due: 8/30/12
CACN: 2A.10
PC: John Trechter
AN-102e
Liquid
S1TR0000412
HOLDP-IC
(12 months)
0.02M MO4NO3
AN-102e4
Liquid
S12R0000383
Dose Rate
Cancentrate
Transfer Database
2AN-e4S1
Solid
S12R0000397
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-e4S1a
Acid Digest
S12R0000415
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-e4S2
Solid
S12R0000398
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-e4S2a
Acid Digest
S12R0000416
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-e4S3
Solid
S12R0000399
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-e4S3a
Acid Digest
S12R0003417
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-e4L1
Liquid
S12R0000433
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-e4L2
Liquid
S12R0000434
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-e4L3
Liquid
S12R0000435
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH


(PCB_TSCA)
AN-102 Permanganate Study
AN-102 Comp.
LIQUID
S11R000379
HOLDPJC
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group: 20111058
Group: 20111499
Group: 20111500
Group:
Due: 8/1/12
CACN: 2A.10
PC: John Trechter
The final concentration of SrNO3 and NaMnO4 in the parent sample will be 100X the parent sample. SrNO3 will be added and thoroughly mixed, followed by addition of the NaMnO4 which will also be thoroughly mixed. At the designated times shown, a 10 mL aliquot of the thoroughly mixed parent sample will be withdrawn and sent to ATL to be centrifuged, followed by analysis of the liquid fractions as shown.
Parent sample bottles will be marked for visual observation to detect volume change above and beyond the sample withdrawal. The bottles will also be weighed when observed to detect any change in mass.
Parent Sample
AN-102f
(7/14/11)
150 mL
Location: 1E2
S11R000417
HOLDPJC
(Group 20111499)
AN-102f1
(2 weeks)
S11R000418
Dose Rate
Centrifuge
AN-1021a
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; Sample Amount
Liquid
Dose Hot Cell
S11R000612
Composited
in sample 041
Solid
(Group 20111058)
AN-102f2
(10/10/11)
(2 months)
S11R000419
Dose Rate
Centrifuge
(Location: 2B Cell 11)
AN-1022a
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; Sample Amount
Liquid
Dose Hot Cell
S11R000597
AN-1022s
Solid
S11R000598
HOLDPJC
(Group 20111500)
AN-102f3
(1/27/12)
(6 months)
S11R000420
Dose Rate
Centrifuge
AN-1023a
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; Sample Amount
Liquid
Dose Hot Cell
S11R000627
Composited
in sample 788
Solid
(Group 20111501)
(12 months)
>See Page 12


AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group:20121036
Due: 8/30/12
CACN: 2A.10
PC: John Trechter
AN-102f
Liquid
S11R000417
HOLDP-IC
(12 months)
0.02M MO4/NO3
AN-102d
Liquid
S12R000384
Dose Rate
Cesium Rate
Transfer Database
2AN-I4L1
Liquid
S12R000436
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-I4L2
Liquid
S12R000437
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-I4L3
Liquid
S12R000438
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-I4S3
Solid
S12R000402
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-I4S3a
Acid Digest
S12R000420
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-I4S2
Solid
S12R000401
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-I4S2a
Acid Digest
S12R000419
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-I4S1
Solid
S12R000400
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-I4S1a
Acid Digest
S12R000418
Am-241
Sr-90
Tc-99
ICP (Total Metals)

AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group: 20111058
Group: 20111499
Group: 20111500
Group:
Due: 8/1/12
CACN: 2A.10
PC: John Trechter
AN-102 Comp.
LIQUID
S11R000379
HOLDPJC
AN-102 BL
Dose Hot Cell
Am-241; Sr-90; Tc-99
ICP (Total Metals)
TIC/TOC
S11R000422 Free OH
pH
AN-102BL1
Parent Sample
150 mL
(7/14/11)
Location: 1E2
S11R000423
HOLDPJC
From the UNTREATED thoroughly mixed parent sample, ~ 10 mL will be withdrawn at the designated time and sent to ATL to be centrifuged, followed by analysis of the liquid fractions as shown.
Per the client's direction, no QC will be run for pH.
Parent sample bottles will be marked for visual observation to detect volume change above and beyond the sample withdrawal. The bottles will also be weighed when observed to detect any change in mass.
(Group 20111499)
(2 weeks)
AN-102BL1a1
Liquid
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
Dose Rate
S11R000515
(Group 20111058)
(2 months)
(10/10/11)
AN-102BL1b
S11R000425
Dose Rate
Centrifuge
(Location: 2B Cell 11)
AN-102BL1b1
Liquid
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
Dose Hot Cell
S11R000602
(Group 20111500)
(6 months)
(1/27/12)
AN-102BL1c1
Liquid
Am-241; Sr-90; Tc-99
ICP (Total Metals); Free OH; TIC/TOC; pH; Sample Amount
Dose Rate
S11R000630
BL1c2
Environmental Digest
S12R000157
Am-241
(Group 20111501)
(12 months)
>See page 14


AN-102 Permanganate Study
(PCB TSCA)
Customer: RESEARCH
Project: AN-102 Permanganate Study
Group:20121036
Due: 8/30/12
CACN: 2A.10
PC: John Trechter
AN-102BL1
(12 months)
Untreated
Liquid
S12R000468
HOLDP JC
Dose Rate
Centrifuge
Transfer Database
2AN-BL1 Res
Solid
S12R000470
SEM
AN-102BL1d1
Liquid
S12R000439
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
AN-102BL1d2
Liquid
S12R000440
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
AN-102BL1d3
Liquid
S12R000441
Dose Hot Cell
Sample Amount
Sr-90
Tc-99
Am-241
ICP (Total Metals)
Free OH
TIC/TOC
pH
2AN-BL1d1s
Solid
S12R000471
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-BL1d1sa
Acid Digest
S12R000474
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-BL1d2s
Solid
S12R000472
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-BL1d2sa
Acid Digest
S12R000475
Am-241
Sr-90
Tc-99
ICP (Total Metals)
2AN-BL1d3s
Solid
S12R000473
TIC/TOC
Sample Amount
Dose Hot Cell
TGA
PSD
2AN-BL1d3sa
Acid Digest
S12R000476
Am-241
Sr-90
Tc-99
ICP (Total Metals)

Appendix B

Tabular Analytical Results

2-MONTH SAMPLES

2-Month Liquid 0.02-M Treatment					
Analyte	**Units**	**S11R000407**	**S11R000594**	**S11R000597**	**Average**
Aluminum	µg/mL	1.38E+04	1.39E+04	9.77E+03	1.25E+04
Americium-241	µCi/mL	6.60E-02	5.93E-02	5.83E-02	6.12E-02
Calcium	µg/mL	3.58E+02	4.14E+02	2.68E+02	3.47E+02
Chromium	µg/mL	1.32E+02	1.37E+02	9.49E+01	1.21E+02
Copper	µg/mL	2.05E+01	2.59E+01	-	2.32E+01
Curium-242	µCi/mL	2.61E-04	2.28E-04	2.43E-04	2.44E-04
Curium-243/244	µCi/mL	1.91E-03	1.81E-03	1.64E-03	1.79E-03
Hydroxide	ug/mL	4.87E+03	5.40E+03	5.17E+03	5.15E+03
Lanthanum	µg/mL	-	1.57E+01	-	1.57E+01
Molybdenum	µg/mL	8.58E+01	-	-	8.58E+01
Nickel	ug/mL	3.79E+02	4.28E+02	3.19E+02	3.75E+02
pH	-	-	-	-	13.46
Phosphorus	µg/mL	1.60E+03	1.59E+03	1.17E+03	1.45E+03
Potassium	µg/mL	-	2.15E+03	-	2.15E+03
Sodium	µg/mL	2.24E+05	2.30E+05	1.66E+05	2.07E+05
Strontium	µg/mL	1.10E+02	1.04E+02	8.29E+01	9.90E+01
Strontium-89/90	µCi/mL	2.00E+01	1.70E+01	9.42E+00	1.55E+01
Sulfur	ug/mL	4.86E+03	4.92E+03	3.49E+03	4.42E+03
Technetium-99	µCi/mL	2.67E-01	1.97E-01	1.64E-01	2.09E-01
Total inorganic carbon	µg/mL	1.17E+04	1.48E+04	1.40E+04	1.35E+04
Total organic carbon	µg/mL	1.99E+04	2.51E+04	2.43E+04	2.31E+04

2-Month Solids 0.02-M Treatment			
Analyte	**Units**	**S11R000557**	**S11R000566**
Aluminum	µg/g	-	1.07E+04
Americium-241	µCi/g	-	2.73E-01
Barium	µg/g	-	6.11E+01
Calcium	µg/g	-	5.78E+02
Chromium	µg/g	-	6.66E+02
Copper	µg/g	-	1.55E+01
Curium-242	µCi/g	-	1.11E-03
Curium-243/244	µCi/g	-	8.22E-03
Iron	µg/g	-	1.82E+02
Lanthanum	µg/g	-	3.30E+01
Lead	µg/g	-	1.24E+02
Manganese	µg/g	-	6.93E+03
Molybdenum	µg/g	-	6.18E+01
Neodymium	µg/g	-	5.80E+01
Nickel	µg/g	-	2.59E+02
Phosphorus	µg/g	-	1.27E+03
Potassium	µg/g	-	1.21E+03
Silicon	ug/g	-	1.51E+02
Silver	µg/g	-	1.68E+01
Sodium	µg/g	-	1.60E+05
Strontium	µg/g	-	2.95E+03
Strontium-89/90	µCi/g	-	1.25E+02
Sulfur	µg/g	-	3.37E+03
Technetium-99	µCi/g	-	9.37E-02
Total inorganic carbon	µg/g	1.03E+04	-
Total organic carbon	µg/g	1.85E+04	-
Zinc	µg/g	-	2.06E+01
Zirconium	µg/g	-	2.90E+01

2-Month Liquid 0.04-M Treatment					
Analyte	**Units**	**S11R000386**	**S11R000588**	**S11R000591**	**Average**
Aluminum	µg/mL	1.32E+04	1.18E+04	1.36E+04	1.29E+04
Americium-241	µCi/mL	3.98E-02	3.83E-02	4.48E-02	4.10E-02
Calcium	µg/mL	3.11E+02	3.01E+02	3.09E+02	3.07E+02
Chromium	µg/mL	9.73E+01	6.70E+01	8.72E+01	8.38E+01
Copper	µg/mL	2.51E+01	-	-	2.51E+01
Curium-242	µCi/mL	2.11E-04	1.12E-04	1.80E-04	1.68E-04
Curium-243/244	µCi/mL	1.38E-03	1.24E-03	1.34E-03	1.32E-03
Hydroxide	µg/mL	5.15E+03	5.57E+03	5.33E+03	5.35E+03
Nickel	µg/mL	4.20E+02	3.46E+02	4.26E+02	3.97E+02
pH	-	13.48	-	-	13.48
Phosphorus	µg/mL	1.63E+03	1.53E+03	1.71E+03	1.62E+03
Potassium	µg/mL	2.28E+03	-	-	2.28E+03
Sodium	µg/mL	2.17E+05	2.04E+05	2.29E+05	2.17E+05
Strontium	µg/mL	1.14E+02	9.02E+01	1.34E+02	1.13E+02
Strontium-89/90	µCi/mL	4.53E+00	4.06E+00	5.07E+00	4.55E+00
Sulfur	µg/mL	4.71E+03	4.29E+03	4.84E+03	4.61E+03
Technetium-99	µCi/mL	2.02E-01	1.21E-01	1.73E-01	1.65E-01
Total inorganic carbon	µg/mL	1.22E+04	1.21E+04	1.26E+04	1.23E+04
Total organic carbon	µg/mL	2.05E+04	2.03E+04	2.12E+04	2.07E+04

2-Month Solids 0.04-M Treatment			
Analyte	**Units**	**S11R000559**	**S11R000564**
Aluminum	µg/g	-	1.12E+04
Americium-241	µCi/g	-	2.35E-01
Barium	µg/g	-	8.62E+01
Calcium	µg/g	-	7.41E+02
Chromium	µg/g	-	5.97E+02
Curium-242	µCi/g	-	9.82E-04
Curium-243/244	µCi/g	-	7.44E-03
Iron	µg/g	-	1.09E+02
Lanthanum	µg/g	-	2.70E+01
Manganese	µg/g	-	9.27E+03
Neodymium	µg/g	-	6.10E+01
Nickel	µg/g	-	2.95E+02
Phosphorus	µg/g	-	1.21E+03
Sodium	µg/g	-	1.73E+05
Strontium	µg/g	-	4.97E+03
Strontium-89/90	µCi/g	-	1.29E+02
Sulfur	µg/g	-	3.44E+03
Technetium-99	µCi/g	-	9.20E-02
Total inorganic carbon	µg/g	9.64E+03	-
Total organic carbon	µg/g	1.74E+04	-

2-Month Liquid Untreated Supernate		
Analyte	**Unit**	**S11R000600**
Aluminum	µg/mL	1.51E+04
Americium-241	-	1.06E-01
Calcium	µg/mL	4.87E+02
Chromium	µg/mL	2.47E+02
Copper	µg/mL	2.42E+01
Curium-242	µCi/mL	5.19E-04
Curium-243/244	µCi/mL	3.10E-03
Hydroxide	µg/mL	5.97E+03
Iron	µg/mL	2.65E+01
Molybdenum	µg/mL	8.14E+01
Nickel	µg/mL	4.13E+02
pH	-	13.55
Phosphorus	µg/mL	1.67E+03
Potassium	µg/mL	2.25E+03
Sodium	µg/mL	2.45E+05
Strontium-89/90	µCi/mL	5.39E+01
Sulfur	µg/mL	5.22E+03
Technetium-99	µCi/mL	1.93E-01
Total inorganic carbon	µg/mL	1.44E+04
Total organic carbon	µg/mL	2.58E+04

6-MONTH SAMPLES

6-Month Liquid 0.02-M Treatment						
Analyte	**Units**	**S11R000408**	**S11R000624**	**S11R000627**	**S12R000153**	**Average**
Aluminum	µg/mL	1.39E+04	1.40E+04	1.48E+04		1.42E+04
Americium-241	µCi/mL	6.17E-02	6.30E-02	6.21E-02	4.45E-02	5.78E-02
Cadmium	µg/mL	-	7.35E+01	6.11E+01		6.73E+01
Chromium	µg/mL	1.39E+02	1.30E+02	1.32E+02		1.34E+02
Cobalt	µg/mL	-	-	1.32E+02		1.32E+02
Curium-242	µCi/mL	1.94E-04	1.96E-04	1.92E-04	1.64E-04	1.87E-04
Curium-243/244	µCi/mL	1.98E-03	2.12E-03	2.09E-03	1.34E-03	1.88E-03
Hydroxide	µg/mL	5.18E+03	4.27E+03	4.85E+03		4.77E+03
Nickel	µg/mL	4.97E+02	5.25E+02	4.74E+02		4.99E+02
pH	-	13.48	-	-		13.48
Phosphorus	µg/mL	1.28E+03	1.33E+03	1.45E+03		1.35E+03
Sodium	µg/mL	2.36E+05	2.45E+05	2.55E+05		2.45E+05
Strontium	µg/mL	9.41E+01	8.84E+01	1.04E+02		9.55E+01
Strontium-89/90	µCi/mL	1.25E+01	1.22E+01	7.10E+00		1.06E+01
Sulfur	µg/mL	5.44E+03	5.41E+03	5.53E+03		5.46E+03
Technetium-99	µCi/mL	1.76E-01	1.62E-01	1.56E-01		1.65E-01
Total inorganic carbon	µg/mL	1.33E+04	1.43E+04	1.31E+04		1.36E+04
Total organic carbon	µg/mL	2.31E+04	2.36E+04	2.28E+04		2.32E+04

6-Month Solids 0.02-M Treatment					
Analyte	**Units**	**S11R000567**	**S11R000768**	**S11R000154**	**Average**
Aluminum	µg/g	1.22E+04	-	-	1.22E+04
Americium-241	µCi/g	2.83E-01	-	1.85E-01	2.34E-01
Barium	µg/g	1.18E+02	-	-	1.18E+02
Chromium	µg/g	7.43E+02	-	-	7.43E+02
Curium-242	µCi/g	8.94E-04	-	6.94E-04	7.94E-04
Curium-243/244	µCi/g	9.68E-03	-	5.86E-03	7.77E-03
Iron	µg/g	2.24E+02	-	-	2.24E+02
Manganese	µg/g	7.60E+03	-	-	7.60E+03
Nickel	µg/g	5.71E+02	-	-	5.71E+02
Phosphorus	µg/g	1.83E+03	-	-	1.83E+03
Sodium	µg/g	1.60E+05	-	-	1.60E+05
Strontium	µg/g	7.40E+03	-	-	7.40E+03
Strontium-89/90	µCi/g	2.83E+02	-	-	2.83E+02
Sulfur	µg/g	-	-	-	-
Technetium-99	µCi/g	1.08E-01	-	-	1.08E-01
Total inorganic carbon	µg/g	-	1.03E+04	-	1.03E+04
Total organic carbon	µg/g	-	1.84E+04	-	1.84E+04

6-Month Liquid 0.04-M Treatment						
Analyte	**Units**	**S11R000387**	**S11R000618**	**S11R000621**	**S12R000155**	**Average**
Aluminum	µg/mL	1.16E+04	1.30E+04	1.28E+04		1.25E+04
Americium-241	µCi/mL	4.55E-02	4.01E-02	4.43E-02	5.89E-02	4.72E-02
Cadmium	µg/mL	5.35E+01	8.60E+01	-		6.98E+01
Chromium	µg/mL	7.46E+01	5.04E+01	8.49E+01		7.00E+01
Curium-242	µCi/mL	1.13E-04	1.18E-04	1.21E-04	2.02E-04	1.39E-04
Curium-243/244	µCi/mL	1.59E-03	1.32E-03	1.49E-03	1.79E-03	1.55E-03
Hydroxide	µg/mL	4.81E+03	4.76E+03	4.23E+03		4.60E+03
Iron	µg/mL	1.32E+02	-	-		1.32E+02
Nickel	µg/mL	4.78E+02	4.61E+02	3.85E+02		4.41E+02
pH	µg/mL	13.45	-	-		13.45
Phosphorus	µg/mL	1.86E+03	1.65E+03	1.79E+03		1.77E+03
Sodium	µg/mL	2.52E+05	2.45E+05	2.38E+05		2.45E+05
Strontium	µg/mL	9.36E+01	9.46E+01	9.88E+01		9.57E+01
Strontium-89/90	µCi/mL	2.42E+00	2.44E+00	3.10E+00		2.65E+00
Sulfur	µg/mL	5.24E+03	5.03E+03	4.82E+03		5.03E+03
Technetium-99	µCi/mL	1.60E-01	1.59E-01	1.68E-01		1.62E-01
Total inorganic carbon	µg/mL	1.35E+04	1.25E+04	1.28E+04		1.29E+04
Total organic carbon	µg/mL	2.14E+04	2.15E+04	2.18E+04		2.16E+04

6-Month Liquid 0.04-M Treatment					
Analyte	**Unit**	**S11R000565**	**S11R000767**	**S12R000156**	**Average**
Aluminum	µg/g	1.25E+04	-	-	1.25E+04
Americium-241	µCi/g	1.61E-01	-	1.74E-01	1.68E-01
Barium	µg/g	8.98E+01	-	-	8.98E+01
Chromium	µg/g	4.23E+02	-	-	4.23E+02
Curium-242	µCi/g	-	-	8.27E-04	4.14E-04
Curium-243/244	µCi/g	6.54E-03	-	5.39E-03	5.97E-03
Manganese	µg/g	5.70E+03	-	-	5.70E+03
Nickel	µg/g	-	-	-	-
Phosphorus	µg/g	1.98E+03	-	-	1.98E+03
Sodium	µg/g	1.44E+05	-	-	1.44E+05
Strontium	µg/g	6.78E+03	-	-	6.78E+03
Strontium-89/90	µCi/g	1.23E+02	-	-	1.23E+02
Sulfur	µg/g	3.08E+03	-	-	3.08E+03
Technetium-99	µCi/g	9.76E-02	-	-	9.76E-02
Total inorganic carbon	µg/g	-	1.03E+04	-	1.03E+04
Total organic carbon	µg/g	-	1.74E+04	-	1.74E+04

6-Month Untreated Supernate		
Analyte	**Unit**	**S11R000630**
Aluminum	µg/mL	1.34E+04
Americium-241	µCi/mL	1.03E-01
Cadmium	µg/mL	8.70E+01
Chromium	µg/mL	2.45E+02
Curium-242	µCi/mL	9.70E-04
Curium-243/244	µCi/mL	3.37E-03
Hydroxide	µg/mL	4.39E+03
Nickel	µg/mL	5.07E+02
pH	-	13.41
Phosphorus	µg/mL	1.98E+03
Sodium	µg/mL	2.03E+05
Strontium-89/90	µCi/mL	5.35E+01
Sulfur	µg/mL	4.77E+03
Technetium-99	µCi/mL	1.57E-01
Total inorganic carbon	µg/mL	1.42E+04
Total organic carbon	µg/mL	2.02E+04

12-Month Liquid 0.02-M Treatment											
Analyte	**Unit**	**S12R000430**	**S12R000431**	**S12R000432**	**S12R000433**	**S12R000434**	**S12R000435**	**S12R000436**	**S12R000437**	**S12R000438**	**Average**
Aluminum	µg/mL	1.12E+04	1.11E+04	1.12E+04	1.00E+04	9.45E+03	9.54E+03	1.07E+04	1.17E+04	1.16E+04	1.07E+04
Americium-241	µCi/mL	5.50E-02	5.50E-02	5.88E-02	5.23E-02	5.16E-02	5.41E-02	5.68E-02	5.78E-02	5.73E-02	5.54E-02
Cadmium	µg/mL	5.78E+01	5.60E+01	5.89E+01	6.25E+01	6.27E+01	6.31E+01	5.59E+01	5.85E+01	5.57E+01	5.90E+01
Calcium	µg/mL	3.58E+02	3.43E+02	3.63E+02	3.76E+02	3.82E+02	3.87E+02	3.49E+02	3.43E+02	3.37E+02	3.60E+02
Chromium	µg/mL	1.27E+02	1.26E+02	1.29E+02	1.32E+02	1.25E+02	1.26E+02	1.24E+02	1.36E+02	1.34E+02	1.29E+02
Copper	µg/mL	2.37E+01	2.44E+01	2.39E+01	2.80E+01	2.62E+01	2.46E+01	2.32E+01	2.62E+01	2.23E+01	2.47E+01
Curium-242	µCi/mL	1.71E-04	1.70E-04	1.79E-04	1.39E-04	1.84E-04	1.59E-04	1.72E-04	1.82E-04	2.00E-04	1.73E-04
Curium-243/244	µCi/mL	1.81E-03	1.72E-03	1.89E-03	1.70E-03	1.68E-03	1.79E-03	1.90E-03	1.92E-03	1.80E-03	1.80E-03
Hydroxide	µg/mL	5.80E+03	5.54E+03	5.71E+03	4.96E+03	5.17E+03	4.90E+03	5.97E+03	5.52E+03	5.29E+03	5.43E+03
Lanthanum	µg/mL	-	-	-	-	-	-	6.02E+00	-	-	6.02E+00
Lead	µg/mL	1.42E+02	1.44E+02	1.49E+02	1.57E+02	1.63E+02	1.66E+02	1.44E+02	1.48E+02	1.46E+02	1.51E+02
Manganese	µg/mL	4.91E+00	-	4.09E+00	2.89E+00	4.53E+00	2.73E+00	3.55E+00	4.90E+00	3.29E+00	3.86E+00
Molybdenum	µg/mL	4.95E+01	4.77E+01	5.00E+01	5.32E+01	5.40E+01	5.49E+01	4.79E+01	5.02E+01	4.80E+01	5.06E+01
Neodymium	µg/mL	1.05E+01	-	9.61E+00	1.15E+01	-	-	-	-	-	1.05E+01
Nickel	µg/mL	4.14E+02	4.00E+02	4.21E+02	4.47E+02	4.50E+02	4.56E+02	4.02E+02	4.17E+02	4.00E+02	4.23E+02
pH		13.53	13.51	13.53	13.47	13.48	13.46	13.55	13.51	13.49	13.5
Phosphorus	µg/mL	1.55E+03	1.48E+03	1.57E+03	1.67E+03	1.66E+03	1.69E+03	1.51E+03	1.57E+03	1.50E+03	1.58E+03
Potassium	µg/mL	2.49E+03	2.56E+03	2.55E+03	2.66E+03	2.55E+03	2.57E+03	2.31E+03	2.46E+03	2.49E+03	2.52E+03
Praseodymium	µg/mL	1.12E+01									1.12E+01
Ruthenium	µg/mL	2.35E+01	2.88E+01	2.01E+01	2.35E+01	2.31E+01	2.55E+01	2.11E+01	2.97E+01	2.75E+01	2.48E+01
Samarium	µg/mL	8.41E+01	8.35E+01	8.17E+01	8.68E+01	8.24E+01	8.68E+01	8.23E+01	8.49E+01	8.75E+01	8.44E+01
Silver	µg/mL	-	-	2.63E+00	-	-	-	-	-	-	2.63E+00
Sodium	µg/mL	2.58E+05	2.63E+05	2.61E+05	2.63E+05	2.49E+05	2.52E+05	2.40E+05	2.58E+05	2.58E+05	2.56E+05
Strontium	µg/mL	7.22E+01	6.99E+01	7.23E+01	8.09E+01	8.03E+01	8.26E+01	7.50E+01	7.87E+01	7.44E+01	7.63E+01
Strontium-89/90	µCi/mL	7.32E+00	7.51E+00	7.61E+00	8.92E+00	8.64E+00	8.62E+00	4.87E+00	5.15E+00	5.17E+00	7.09E+00
Sulfur	µg/mL	5.00E+03	4.84E+03	5.09E+03	5.36E+03	5.37E+03	5.46E+03	4.86E+03	5.05E+03	4.84E+03	5.10E+03
Technetium-99	µg/mL	1.62E-01	1.38E-01	1.17E-01	1.47E-01	1.53E-01	1.35E-01	1.46E-01	1.31E-01	1.28E-01	1.40E-01
Total inorganic carbon	µg/mL	1.30E+04	1.33E+04	1.45E+04	1.18E+04	1.18E+04	1.22E+04	1.41E+04	1.36E+04	1.50E+04	1.33E+04
Total organic carbon	µg/mL	8.81E+03	2.26E+04	2.43E+04	2.47E+04	2.45E+04	2.52E+04	2.37E+04	2.31E+04	2.52E+04	2.25E+04
Tungsten	µg/mL	1.37E+02	1.63E+02	1.54E+02	1.64E+02	1.60E+02	1.53E+02	1.39E+02	1.47E+02	1.43E+02	1.51E+02
Uranium	µg/mL	-	-	-	-	-	-	-	-	5.13E+01	5.13E+01

12-Month Solids 0.02-M Treatment											
Analyte	**Units**	**S12R000412**	**S12R000413**	**S12R000414**	**S12R000415**	**S12R000416**	**S12R000417**	**SR12000418**	**S12R000419**	**S12R000420**	**Average**
Aluminum	µg/g	2.39E+04	2.38E+04	2.54E+04	1.67E+04	1.84E+04	1.80E+04	2.41E+04	2.29E+04	2.27E+04	2.18E+04
Americium-241	µCi/g	2.80E-01	2.71E-01	2.93E-01	1.55E-01	1.70E-01	1.66E-01	2.96E-01	2.80E-01	2.82E-01	2.44E-01
Barium	µg/g	1.64E+02	1.64E+02	1.66E+02	6.71E+01	8.51E+01	8.26E+01	1.67E+02	1.59E+02	1.59E+02	1.35E+02
Cadmium	µg/g	4.33E+01	4.58E+01	4.76E+01	4.34E+01	4.52E+01	4.46E+01	4.58E+01	4.55E+01	4.49E+01	4.51E+01
Calcium	µg/g	7.02E+02	7.19E+02	7.41E+02	4.44E+02	5.10E+02	4.94E+02	8.75E+02	7.97E+02	8.15E+02	6.77E+02
Chromium	µug/g	7.43E+02	7.47E+02	7.77E+02	3.70E+02	4.31E+02	4.16E+02	7.80E+02	7.39E+02	7.37E+02	6.38E+02
Curium-242	µCi/g	1.12E-03	1.26E-03	1.10E-03	5.66E-04	6.00E-04	6.30E-04	1.14E-03	1.08E-03	1.05E-03	9.50E-04
Curium-243/244	µCi/g	8.39E-03	8.11E-03	9.20E-03	4.79E-03	5.21E-03	5.29E-03	9.11E-03	8.26E-03	8.86E-03	7.47E-03
Iron	µg/g	1.70E+02	1.72E+02	1.82E+02	7.63E+01	8.99E+01	8.56E+01	1.85E+02	1.77E+02	1.76E+02	1.46E+02
Lanthanum	µg/g	4.36E+01	-	-	-	-	-	-	-	-	4.36E+01
Lead	µg/g	2.14E+02	2.28E+02	2.22E+02	1.58E+02	1.62E+02	1.65E+02	2.21E+02	2.21E+02	2.18E+02	2.01E+02
Manganese	µg/g	8.78E+03	9.02E+03	9.33E+03	3.87E+03	4.60E+03	4.46E+03	9.29E+03	8.87E+03	8.83E+03	7.45E+03
Molybdenum	µg/g	3.16E+01	3.11E+01	3.13E+01	3.18E+01	3.36E+01	3.30E+01	3.16E+01	3.18E+01	3.05E+01	3.18E+01
Neodymium	µg/g	4.62E+01	-	-	-	-	-	-	-	-	4.62E+01
Nickel	µg/g	2.62E+02	2.73E+02	2.82E+02	2.77E+02	2.89E+02	2.85E+02	2.73E+02	2.73E+02	2.97E+02	2.79E+02
Phosphorus	µg/g	2.49E+03	1.75E+03	1.66E+03	1.38E+03	1.35E+03	1.20E+03	1.80E+03	1.38E+03	1.67E+03	1.63E+03
Potassium	µg/g	1.43E+03	-	-	-	-	-	-	-	-	1.43E+03
Praseodymium	µg/g	1.16E+01	-	-	-	-	-	-	-	-	1.16E+01
Sodium	µg/g	1.60E+05	1.65E+05	1.70E+05	1.81E+05	1.81E+05	1.79E+05	1.63E+05	1.61E+05	1.61E+05	1.69E+05
Strontium	µg/g	1.03E+04	1.01E+04	1.00E+04	4.09E+03	5.12E+03	4.91E+03	1.05E+04	9.91E+03	1.01E+04	8.34E+03
Strontium-89/90	µCi/g	2.66E+02	2.53E+02	2.52E+02	1.05E+02	1.31E+02	1.26E+02	2.92E+02	2.76E+02	2.82E+02	2.20E+02
Sulfur	µg/g	3.02E+03	3.17E+03	3.28E+03	3.26E+03	3.43E+03	3.37E+03	3.18E+03	3.18E+03	3.14E+03	3.23E+03
Technetium-99	µCi/g	8.89E-02	1.09E-01	1.12E-01	1.04E-01	1.06E-01	1.08E-01	1.08E-01	1.03E-01	1.06E-01	1.05E-01
Thorium	µg/g	1.82E+01	-	-	-	-	-	-	-	-	1.82E+01
Tin	µg/g	3.35E+01	-	-	-	-	-	-	-	-	3.35E+01
Tungsten	µg/g	9.96E+01	-	-	-	-	-	-	-	-	9.96E+01
Yttrium	µg/g	4.76E+00	-	-	-	-	-	-	-	-	4.76E+00
Analyte	**Units**	**S12R000394**	**S12R000395**	**S12R000396**	**S12R000397**	**S12R000398**	**S12R000399**	**S12R000400**	**S12R000401**	**S12R000402**	**Average**
Total Inorganic Carbon	µg/g	1.18E+04	1.23E+04	1.16E+04	1.63E+04	1.71E+04	1.50E+04	1.19E+04	1.26E+04	1.24E+04	1.21E+05
Total Organic Carbon	µg/g	1.89E+04	1.94E+04	1.87E+04	1.90E+04	1.94E+04	1.98E+04	1.78E+04	1.86E+04	1.81E+04	1.70E+05

12-Month 0.04-M Treatment											
Analyte	**Units**	**S12R000421**	**S12R000422**	**S12R000423**	**S12R000424**	**S12R000425**	**S12R000426**	**S12R000427**	**S12R000428**	**S12R000429**	**Average**
Aluminum	µg/mL	7.50E+03	7.60E+03	7.55E+03	9.42E+03	9.57E+03	9.65E+03	9.20E+03	8.85E+03	9.21E+03	8.73E+03
Americium-241	µCi/mL	3.77E-02	3.75E-02	3.63E-02	3.60E-02	3.55E-02	3.50E-02	4.13E-02	4.12E-02	3.90E-02	3.77E-02
Cadmium	µg/mL	6.26E+01	6.33E+01	6.38E+01	5.78E+01	5.88E+01	5.96E+01	5.88E+01	5.81E+01	5.73E+01	6.00E+01
Calcium	µg/mL	3.22E+02	3.30E+02	3.28E+02	3.22E+02	3.26E+02	3.25E+02	3.19E+02	3.11E+02	3.08E+02	3.21E+02
Cerium	µg/mL	5.02E+01	5.88E+01	7.08E+01	5.30E+01	5.64E+01	5.98E+01	5.03E+01	6.83E+01	-	5.85E+01
Chromium	µg/mL	5.90E+01	5.84E+01	5.80E+01	5.94E+01	5.97E+01	5.99E+01	6.91E+01	6.80E+01	6.95E+01	6.23E+01
Copper	µg/mL	2.30E+01	2.43E+01	2.23E+01	1.97E+01	2.26E+01	2.18E+01	2.27E+01	2.26E+01	2.14E+01	2.23E+01
Curium-242	µCi/mL	1.13E-04	7.50E-05	1.07E-04	9.35E-05	1.02E-04	7.55E-05	1.11E-04	1.01E-04	1.15E-04	9.92E-05
Curium-243/244	µCi/mL	1.21E-03	1.30E-03	1.19E-03	1.14E-03	1.17E-03	1.13E-03	1.36E-03	1.30E-03	1.26E-03	1.23E-03
Hydroxide	µg/mL	4.62E+03	4.66E+03	4.95E+03	5.61E+03	5.67E+03	5.34E+03	5.77E+03	5.61E+03	6.25E+03	5.39E+03
Lead	µg/mL	1.32E+02	1.19E+02	1.31E+02	1.24E+02	1.23E+02	1.15E+02	1.18E+02	1.14E+02	1.37E+02	1.24E+02
Manganese	µg/mL	4.14E+00	3.73E+00	5.70E+00	6.44E+00	3.39E+00	4.80E+00	3.94E+00	3.91E+00	6.69E+00	4.75E+00
Molybdenum	µg/mL	5.16E+01	5.30E+01	5.26E+01	4.86E+01	4.91E+01	4.73E+01	4.79E+01	4.73E+01	4.83E+01	4.95E+01
Neodymium	µg/mL	7.70E+00	-	-	-	-	8.74E+00	-	-	-	8.22E+00
Nickel	µg/mL	4.37E+02	4.40E+02	4.44E+02	4.00E+02	4.05E+02	4.10E+02	4.06E+02	3.99E+02	4.14E+02	4.17E+02
pH	-	13.43	13.44	13.46	13.52	13.52	13.5	13.53	13.52	13.57	13.5
Phosphorus	µg/mL	1.80E+03	1.83E+03	1.83E+03	1.66E+03	1.69E+03	1.70E+03	1.67E+03	1.61E+03	1.63E+03	1.71E+03
Potassium	µg/mL	2.34E+03	2.43E+03	2.39E+03	2.18E+03	2.17E+03	2.17E+03	2.19E+03	2.11E+03	2.38E+03	2.26E+03
Praseodymium	µg/mL	1.15E+01	-	-	-	-	-	-	-	1.04E+01	1.10E+01
Ruthenium	µg/mL	2.94E+01	2.82E+01	2.99E+01	2.64E+01	2.04E+01	2.91E+01	2.79E+01	2.64E+01	2.37E+01	2.68E+01
Samarium	µg/mL	3.24E+01	3.84E+01	4.03E+01	3.57E+01	3.29E+01	3.49E+01	3.27E+01	3.45E+01	7.99E+01	4.02E+01
Silver	µg/mL	-	-	2.53E+00	-	-	-	-	-	-	2.53E+00
Sodium	µg/mL	2.36E+05	2.39E+05	2.39E+05	2.24E+05	2.25E+05	2.25E+05	2.23E+05	2.20E+05	2.43E+05	2.30E+05
Strontium	µg/mL	6.83E+01	6.87E+01	7.73E+01	6.96E+01	6.98E+01	7.20E+01	7.24E+01	7.26E+01	7.65E+01	7.19E+01
Strontium-89/90	µCi/mL	1.63E+00	1.67E+00	1.49E+00	1.40E+00	1.48E+00	1.46E+00	1.97E+00	2.10E+00	1.83E+00	1.67E+00
Sulfur	µg/mL	5.14E+03	5.22E+03	5.23E+03	4.75E+03	4.80E+03	4.85E+03	4.80E+03	4.73E+03	4.98E+03	4.94E+03
Technetium-99	µCi/mL	1.55E-01	1.69E-01	1.67E-01	1.55E-01	1.59E-01	1.72E-01	1.51E-01	1.48E-01	1.59E-01	1.59E-01
Tin	µg/mL	7.70E+00	7.73E+00	-	-	-	-	-	-	-	7.72E+00
Total inorganic carbon	µg/mL	1.35E+04	1.32E+04	1.35E+04	1.17E+04	1.27E+04	1.18E+04	1.32E+04	1.17E+04	1.23E+04	1.26E+04
Total organic carbon	µg/mL	2.26E+04	2.19E+04	2.28E+04	1.94E+04	1.83E+04	2.00E+04	2.20E+04	1.94E+04	2.05E+04	2.08E+04
Tungsten	µg/mL	1.33E+02	1.37E+02	1.55E+02	1.32E+02	1.26E+02	1.30E+02	1.26E+02	1.18E+02	1.37E+02	1.33E+02
Uranium	µg/mL	-	-	-	-	-	-	-	-	6.22E+01	6.22E+01

12-Month Solids 0.04-M Treatment (2 sheets)											
Analyte	**Units**	**S12R000403**	**S12R000404**	**S12R000405**	**S12R000406**	**S12R000407**	**S12R000408**	**S12R000410**	**S12R000411**	**S12R000409**	**Average**
Aluminum	µg/g	2.09E+04	2.19E+04	2.14E+04	2.15E+04	2.21E+04	2.22E+04	2.49E+04	2.65E+04	2.77E+04	2.32E+04
Americium-241	µCi/g	2.13E-01	2.21E-01	2.15E-01	2.94E-01	2.85E-01	2.83E-01	2.83E-01	2.78E-01	2.87E-01	2.62E-01
Barium	µg/g	2.06E+02	2.21E+02	1.96E+02	2.49E+02	2.54E+02	2.55E+02	2.71E+02	2.28E+02	2.69E+02	2.39E+02
Cadmium	µg/g	4.30E+01	4.23E+01	4.28E+01	4.20E+01	4.12E+01	4.21E+01	4.20E+01	4.19E+01	4.27E+01	4.22E+01
Calcium	µg/g	6.83E+02	7.14E+02	6.66E+02	7.35E+02	7.41E+02	7.51E+02	8.00E+02	7.24E+02	1.31E+03	7.92E+02
Chromium	µg/g	5.59E+02	5.75E+02	5.61E+02	7.77E+02	7.54E+02	7.50E+02	7.65E+02	7.56E+02	8.15E+02	7.01E+02
Curium-242	µCi/g	7.61E-04	7.10E-04	8.77E-04	1.21E-03	1.11E-03	1.20E-03	1.37E-03	1.00E-03	1.10E-03	1.04E-03
Curium-243/244	µCi/g	6.72E-03	7.33E-03	6.82E-03	9.27E-03	8.21E-03	8.49E-03	8.67E-03	8.43E-03	8.83E-03	8.09E-03
Iron	µg/g	9.45E+01	9.85E+01	9.92E+01	1.29E+02	1.28E+02	1.28E+02	1.38E+02	1.37E+02	1.45E+02	1.22E+02
Lanthanum	µg/g	3.01E+01	3.26E+01	3.03E+01	4.02E+01	3.99E+01	4.04E+01	4.18E+01	3.94E+01	4.28E+01	3.75E+01
Lead	µg/g	1.88E+02	1.90E+02	1.76E+02	2.18E+02	2.14E+02	2.17E+02	2.18E+02	2.22E+02	2.29E+02	2.08E+02
Magnesium	µg/g	-	-	-	-	-	-	-	-	4.86E+00	4.86E+00
Manganese	µg/g	8.70E+03	8.92E+03	8.64E+03	1.19E+04	1.19E+04	1.19E+04	1.15E+04	1.10E+04	1.19E+04	1.07E+04
Molybdenum	µg/g	3.31E+01	3.17E+01	3.25E+01	3.16E+01	3.19E+01	3.16E+01	3.07E+01	3.05E+01	2.99E+01	3.15E+01
Neodymium	µg/g	3.42E+01	3.21E+01	3.23E+01	4.82E+01	4.68E+01	5.04E+01	4.43E+01	4.65E+01	5.18E+01	4.30E+01
Nickel	µg/g	2.69E+02	2.65E+02	2.63E+02	2.57E+02	2.58E+02	2.55E+02	2.54E+02	2.50E+02	2.54E+02	2.58E+02
Phosphorus	µg/g	1.30E+03	1.60E+03	1.19E+03	1.15E+03	1.08E+03	1.11E+03	1.08E+03	1.06E+03	1.07E+03	1.18E+03
Potassium	µg/g	1.41E+03	1.43E+03	1.39E+03	1.37E+03	1.38E+03	1.39E+03	1.36E+03	1.33E+03	1.35E+03	1.38E+03
Praseodymium	µg/g	1.09E+01	1.13E+01	-	1.35E+01	1.45E+01	-	1.24E+01	-	1.22E+01	1.25E+01
Rubidium	µg/g	-	-	-	-	-	8.23E+01	-	-	8.30E+01	8.27E+01
Sodium	µg/g	1.60E+05	1.60E+05	1.57E+05	1.45E+05	1.47E+05	1.47E+05	1.46E+05	1.42E+05	1.44E+05	1.50E+05
Strontium	µg/g	1.38E+04	1.49E+04	1.30E+04	1.62E+04	1.65E+04	1.67E+04	1.78E+04	1.44E+04	1.72E+04	1.56E+04
Strontium-89/90	µCi/g	1.80E+02	1.90E+02	1.67E+02	2.17E+02	2.20E+02	2.26E+02	2.34E+02	1.95E+02	2.30E+02	2.07E+02
Sulfur	µg/g	3.15E+03	3.09E+03	3.06E+03	2.97E+03	2.98E+03	2.98E+03	2.95E+03	2.88E+03	2.93E+03	3.00E+03
Technetium-99	µCi/g	1.02E-01	9.88E-02	9.22E-02	9.15E-02	8.21E-02	9.01E-02	8.52E-02	8.14E-02	8.34E-02	8.96E-02
Thorium	µg/g	2.64E+01	1.40E+01	2.14E+01	2.94E+01	2.97E+01	2.00E+01	2.70E+01	3.18E+01	2.56E+01	2.50E+01
Tin	µg/g	-	7.78E+00	-	-	-	-	-	-		7.78E+00
Tungsten	µg/g	1.14E+02	1.08E+02	1.11E+02	9.80E+01	1.05E+02	9.27E+01	1.03E+02	8.93E+01	9.20E+01	1.01E+02
Yttrium	µg/g	-	-	-	6.46E+00	4.37E+00	-	4.57E+00	4.46E+00	6.13E+00	5.20E+00
Analyte	**Units**	**SR12000385**	**S12R000386**	**S12R000387**	**S12R000388**	**S12R000389**	**S12R000390**	**S12R000392**	**S12R000393**	**S12R000391**	**Average**
Total inorg. carbon	µg/g	1.74E+04	1.37E+04	1.51E+04	1.25E+04	1.18E+04	1.21E+04	1.23E+04	1.26E+04	1.23E+04	1.33E+04
Total org. carbon	µg/g	1.88E+04	1.86E+04	1.90E+04	1.71E+04	1.72E+04	1.79E+04	1.83E+04	1.89E+04	1.87E+04	1.83E+04

12-Month Untreated Supernate					
Analyte	**Units**	**S12R000439**	**S12R000440**	**S12R000441**	**Average**
Aluminum	µg/mL	1.38E+04	1.48E+04	1.45E+04	1.44E+04
Cadmium	µg/mL	6.10E+01	6.24E+01	6.29E+01	6.21E+01
Calcium	µg/mL	4.47E+02	4.60E+02	4.61E+02	4.56E+02
Chromium	µg/mL	2.48E+02	2.67E+02	2.55E+02	2.57E+02
Copper	µg/mL	2.57E+01	2.44E+01	2.59E+01	2.53E+01
Hydroxide	µg/mL	3.69E+03	3.70E+03	3.94E+03	3.78E+03
Iron	µg/mL	3.24E+01	3.50E+01	3.40E+01	3.38E+01
Lead	µg/mL	1.77E+02	1.84E+02	1.80E+02	1.80E+02
Manganese	µg/mL	9.25E+00	9.88E+00	9.53E+00	9.55E+00
Molybdenum	µg/mL	5.19E+01	5.22E+01	5.45E+01	5.29E+01
Neodymium	µg/mL	1.41E+01	1.61E+01	1.17E+01	1.40E+01
Nickel	µg/mL	4.32E+02	4.43E+02	4.47E+02	4.41E+02
pH	-	13.34	13.34	13.37	13.35
Phosphorus	µg/mL	1.72E+03	1.77E+03	1.80E+03	1.76E+03
Potassium	µg/mL	2.40E+03	2.54E+03	2.53E+03	2.49E+03
Praseodymium	µg/mL	-	-	1.26E+01	1.26E+01
Ruthenium	µg/mL	1.94E+01	2.16E+01	2.29E+01	2.13E+01
Samarium	µg/mL	8.39E+01	7.95E+01	8.26E+01	8.20E+01
Sodium	µg/mL	2.43E+05	2.61E+05	2.51E+05	2.52E+05
Sulfur	µg/mL	5.13E+03	5.25E+03	5.33E+03	5.24E+03
Total inorganic carbon	µg/mL	1.19E+04	1.15E+04	1.21E+04	1.18E+04
Total organic carbon	µg/mL	2.48E+04	2.15E+04	2.45E+04	2.36E+04
Tungsten	µg/mL	1.47E+02	1.62E+02	1.61E+02	1.57E+02
Radioisotopes					
Analyte	**Units**	**S12R000439**	**S11R000440**	**S12R000441**	**Average**
Americium-241	µCi/mL	9.45E-02	1.02E-01	9.25E-02	9.63E-02
Curium-242	µCi/mL	3.15E-04	3.71E-04	3.20E-04	3.35E-04
Curium-243/244	µCi/mL	3.02E-03	3.22E-03	2.93E-03	3.06E-03
Strontium-89/90	µCi/mL	5.49E+01	5.52E+01	5.38E+01	5.46E+01
Technetium-99	µCi/mL	1.50E-01	1.55E-01	1.85E-01	1.63E-01

12-Month Solids from Untreated Supernate				
Analyte	**Units**	**S12R000474**	**S12R000475**	**Average**
Average	µg/g	1.13E+04	1.07E+04	1.10E+04
Cadmium	µg/g	4.59E+01	4.54E+01	4.57E+01
Calcium	µg/g	3.55E+02	3.36E+02	3.46E+02
Chromium	µg/g	1.83E+02	1.79E+02	1.81E+02
Iron	µg/g	2.99E+01	4.24E+01	3.62E+01
Lead	µg/g	1.26E+02	1.24E+02	1.25E+02
Manganese	µg/g	1.96E+01	1.83E+01	1.90E+01
Molybdenum	µg/g	3.63E+01	3.59E+01	3.61E+01
Nickel	µg/g	3.07E+02	3.02E+02	3.05E+02
Phosphorus	µg/g	1.28E+03	1.24E+03	1.26E+03
Sodium	µg/g	1.84E+05	1.75E+05	1.80E+05
Sulfur	µg/g	3.62E+03	3.57E+03	3.60E+03
Analyte	**Units**	**S12R000471**	**S12R000472**	**Average**
Total inorganic carbon	µg/g	1.84E+04	1.37E+04	1.61E+04
Total organic carbon	µg/g	2.74E+04	2.14E+04	2.44E+04
Radioisotopes				
Analyte	**Units**	**S12R000474**	**S12R000475**	**Average**
Americium-241	µCi/g	7.83E-02	7.81E-02	7.82E-02
Curium-242	µCi/g	2.90E-04	3.74E-04	3.32E-04
Curium-243/244	µCi/g	2.63E-03	2.68E-03	2.66E-03
Strontium-89/90	µCi/g	3.84E+01	3.75E+01	3.80E+01
Technetium-99	µCi/g	1.08E-01	1.08E-01	1.08E-01

Appendix C

Data Summary Report

29-oct-2013 09:16:51		Page: 1		DSRSpreadsheetWOLimits 2.7.32	DSR.Jar v. 2.7.31													
INTERIM																		
AN-102 Permanganate Study																		
Data Summary of All Results																		
Customer Group or SDG Number	Customer Sample ID	Customer Sample ID	SAMPLE_R	Method	A	CAS #	ANALYTE	RESULT_UNIT	STANDARD	BLANK	RESULT	DUPLICATE	AVERAGE	RPD	SPK_REC	Det Limit	COUNT_ERR	QUALIFIER
	2AN-BL-1d1s	2AN-BL-1d1s	S12R000471	% Water by TGA		%WATER	Percent water	%	101	n/a	44.0	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-BL-1d1s	2AN-BL-1d1s	S12R000471	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.40	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-BL-1d1s	2AN-BL-1d1s	S12R000471	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL-1d1s	2AN-BL-1d1s	S12R000471	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL-1d1s	2AN-BL-1d1s	S12R000471	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	102	<7.00	1.84E+04	n/a	n/a	n/a	n/a	78.7	n/a	
	2AN-BL-1d1s	2AN-BL-1d1s	S12R000471	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.9	<20.0	2.74E+04	n/a	n/a	n/a	n/a	225	n/a	
	2AN-BL-1d2s	2AN-BL-1d2s	S12R000472	% Water by TGA		%WATER	Percent water	%	101	n/a	45.8	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-BL-1d2s	2AN-BL-1d2s	S12R000472	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.40	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-BL-1d2s	2AN-BL-1d2s	S12R000472	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL-1d2s	2AN-BL-1d2s	S12R000472	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL-1d2s	2AN-BL-1d2s	S12R000472	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	102	<7.00	1.37E+04	n/a	n/a	n/a	n/a	194	n/a	
	2AN-BL-1d2s	2AN-BL-1d2s	S12R000472	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.9	<20.0	2.14E+04	n/a	n/a	n/a	n/a	554	n/a	
	2AN-BL-Res	2AN-BL-Res	S12R000470	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	76.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	2.63E-03	n/a	n/a	n/a	n/a	2.66E-05	6.12	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.0783	n/a	n/a	n/a	n/a	7.77E-05	1.06	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	98.720	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	2.90E-04	n/a	n/a	n/a	n/a	2.53E-05	18.25	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	1.13E+04	n/a	n/a	n/a	n/a	13.1	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	355	n/a	n/a	n/a	n/a	174	n/a	J
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	45.9	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	183	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	29.9	n/a	n/a	n/a	n/a	21.8	n/a	J
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	19.6	n/a	n/a	n/a	n/a	2.18	n/a	J
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	36.3	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.84E+05	n/a	n/a	n/a	n/a	87.1	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	307	n/a	n/a	n/a	n/a	2.18	n/a	

	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.28E+03	n/a	n/a	n/a	n/a	6.54	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	126	n/a	n/a	n/a	n/a	13.1	n/a	J
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.62E+03	n/a	n/a	n/a	n/a	10.9	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	<4.36	n/a	n/a	n/a	n/a	4.36	n/a	U
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	38.4	n/a	n/a	n/a	n/a	0.0132	1.025	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.108	n/a	n/a	n/a	n/a	1.29E-03	3.7	
	2AN-BL1d1sa	2AN-BL1d1sa	S12R000474	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	64.2	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	2.68E-03	n/a	n/a	n/a	n/a	7.12E-05	5.94	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.0781	n/a	n/a	n/a	n/a	8.00E-05	1.03	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	94.000	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	3.74E-04	n/a	n/a	n/a	n/a	2.41E-05	15.61	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	1.07E+04	n/a	n/a	n/a	n/a	12.0	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	<2.00	n/a	n/a	n/a	n/a	2.00	n/a	U
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	336	n/a	n/a	n/a	n/a	160	n/a	J
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	45.4	n/a	n/a	n/a	n/a	2.00	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	179	n/a	n/a	n/a	n/a	2.00	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	42.4	n/a	n/a	n/a	n/a	20.0	n/a	J
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	18.3	n/a	n/a	n/a	n/a	2.00	n/a	J
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	35.9	n/a	n/a	n/a	n/a	2.00	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.75E+05	n/a	n/a	n/a	n/a	79.8	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	302	n/a	n/a	n/a	n/a	2.00	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.24E+03	n/a	n/a	n/a	n/a	5.99	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	124	n/a	n/a	n/a	n/a	12.0	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.57E+03	n/a	n/a	n/a	n/a	9.98	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	<3.99	n/a	n/a	n/a	n/a	3.99	n/a	U
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	37.5	n/a	n/a	n/a	n/a	0.0121	0.995	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	85.3	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.108	n/a	n/a	n/a	n/a	1.21E-03	3.5	

	2AN-BL1d2sa	2AN-BL1d2sa	S12R000475	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	62.8	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.21E-03	1.27E-03	1.24E-03	4.84	n/a	1.50E-05	4.04	
	2AN-a4L1	2AN-a4L1	S12R000421	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0377	0.0379	0.0378	0.529	n/a	1.61E-05	0.68	
	2AN-a4L1	2AN-a4L1	S12R000421	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	90.240	101.15	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	1.13E-04	1.31E-04	1.22E-04	14.8	n/a	8.67E-06	12.6	
	2AN-a4L1	2AN-a4L1	S12R000421	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	Q
	2AN-a4L1	2AN-a4L1	S12R000421	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.90	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	102	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	<2.50	n/a	n/a	94.7	2.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7429-90-5	Aluminum	ug/mL	100	<6.00E-03	7.50E+03	7.43E+03	7.46E+03	0.929	97.5	15.0	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-38-2	Arsenic	ug/mL	99.0	<5.00E-03	<12.5	<12.5	n/a	n/a	96.4	12.5	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	<2.50	n/a	n/a	94.8	2.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-41-7	Beryllium	ug/mL	99.6	<1.00E-03	<2.50	<2.50	n/a	n/a	95.8	2.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-69-9	Bismuth	ug/mL	101	<6.00E-03	<15.0	<15.0	n/a	n/a	94.3	15.0	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-70-2	Calcium	ug/mL	100	<0.0800	322	328	325	1.78	94.5	200	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-43-9	Cadmium	ug/mL	100	<1.00E-03	62.6	62.4	62.5	0.251	92.8	2.50	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-45-1	Cerium	ug/mL	98.6	0.0186	50.2	71.5	60.9	35.1	91.8	15.0	n/a	J

	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-47-3	Chromium	ug/mL	101	<1.00E-03	59.0	57.6	58.3	2.33	95.6	2.50	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-50-8	Copper	ug/mL	102	<2.00E-03	23.0	22.9	23.0	0.511	98.2	5.00	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-53-1	Europium	ug/mL	103	<1.00E-03	<2.50	<2.50	n/a	n/a	94.4	2.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7439-89-6	Iron	ug/mL	99.7	<0.0100	<25.0	<25.0	n/a	n/a	93.7	25.0	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-09-7	Potassium	ug/mL	101	<0.0200	2.34E+03	2.33E+03	2.34E+03	0.676	91.9	50.0	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7439-93-2	Lithium	ug/mL	99.9	<1.00E-03	<2.50	<2.50	n/a	n/a	90.4	2.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<2.00E-03	<5.00	<5.00	n/a	n/a	97.3	5.00	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7439-96-5	Manganese	ug/mL	103	<1.00E-03	4.14	3.74	3.94	10.3	95.3	2.50	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.9	<1.00E-03	51.6	52.7	52.2	2.13	92.6	2.50	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-23-5	Sodium	ug/mL	102	<0.0400	2.36E+05	2.34E+05	2.35E+05	0.579	97.7	100	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-00-8	Neodymium	ug/mL	103	<3.00E-03	7.70	<7.50	n/a	n/a	96.3	7.50	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-02-0	Nickel	ug/mL	102	<1.00E-03	437	438	437	0.308	93.6	2.50	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-30-1	Niobium	ug/mL	100	<3.00E-03	<7.50	<7.50	n/a	n/a	96.2	7.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.9	<3.00E-03	1.80E+03	1.80E+03	1.80E+03	0.425	97.1	7.50	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7439-92-1	Lead	ug/mL	102	<6.00E-03	132	127	130	3.29	99.1	15.0	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-05-3	Palladium	ug/mL	99.4	<9.00E-03	<22.5	<22.5	n/a	n/a	90.3	22.5	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-10-0	Praseodymium	ug/mL	99.5	<4.00E-03	11.5	<10.0	n/a	n/a	94.1	10.0	n/a	J

	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-17-7	Rubidium	ug/mL	101	<0.0300	<75.0	<75.0	n/a	n/a	93.3	75.0	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-16-6	Rhodium	ug/mL	99.4	<8.00E-03	<20.0	<20.0	n/a	n/a	92.7	20.0	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	29.4	30.6	30.0	3.88	89.5	10.0	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7704-34-9	Sulfur	ug/mL	100	<5.00E-03	5.14E+03	5.15E+03	5.14E+03	0.197	97.7	12.5	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-36-0	Antimony	ug/mL	98.5	<6.00E-03	<15.0	<15.0	n/a	n/a	105	15.0	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7782-49-2	Selenium	ug/mL	99.0	<6.00E-03	<15.0	<15.0	n/a	n/a	96.2	15.0	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-19-9	Samarium	ug/mL	102	0.0147	32.4	39.1	35.7	18.8	94.4	12.5	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-31-5	Tin	ug/mL	98.2	<3.00E-03	7.70	<7.50	n/a	n/a	92.9	7.50	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-24-6	Strontium	ug/mL	101	<2.00E-03	68.3	69.2	68.7	1.27	94.4	5.00	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-25-7	Tantalum	ug/mL	99.0	<5.00E-03	<12.5	<12.5	n/a	n/a	94.6	12.5	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		13494-80-9	Tellurium	ug/mL	98.0	<5.00E-03	<12.5	<12.5	n/a	n/a	93.3	12.5	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-29-1	Thorium	ug/mL	101	<5.00E-03	<12.5	<12.5	n/a	n/a	94.0	12.5	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-32-6	Titanium	ug/mL	97.4	<1.00E-03	<2.50	<2.50	n/a	n/a	93.2	2.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-28-0	Thallium	ug/mL	100	<6.00E-03	<15.0	<15.0	n/a	n/a	88.1	15.0	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-62-2	Vanadium	ug/mL	99.7	<1.00E-03	<2.50	<2.50	n/a	n/a	95.1	2.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-33-7	Tungsten	ug/mL	98.2	<6.00E-03	133	141	137	6.16	94.2	15.0	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-65-5	Yttrium	ug/mL	101	<2.00E-03	<5.00	<5.00	n/a	n/a	95.0	5.00	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	<10.0	n/a	n/a	95.5	10.0	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	ICP-AES		7440-67-7	Zirconium	ug/mL	95.4	<1.00E-03	<2.50	<2.50	n/a	n/a	93.2	2.50	n/a	U
	2AN-a4L1	2AN-a4L1	S12R000421	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	4.62E+03	4.65E+03	4.63E+03	0.785	99.5	553	n/a	J
	2AN-a4L1	2AN-a4L1	S12R000421	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	1.63	1.63	1.63	0.0206	n/a	0.0145	5.373	
	2AN-a4L1	2AN-a4L1	S12R000421	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	84.7	84.0	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	100	<7.00	1.35E+04	1.37E+04	1.36E+04	1.47	107	70.0	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	89.1	<20.0	2.26E+04	2.31E+04	2.28E+04	2.19	102	200	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.155	0.150	0.153	3.58	n/a	3.84E-05	0.4	
	2AN-a4L1	2AN-a4L1	S12R000421	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	61.9	64.1	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L1	2AN-a4L1	S12R000421	pH of Liquids		PH	pH	unitless	n/a	n/a	13.5	13.5	13.5	0.148	n/a	0.0100	n/a	E
	2AN-a4L2	2AN-a4L2	S12R000422	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.30E-03	n/a	n/a	n/a	n/a	9.93E-06	3.43	
	2AN-a4L2	2AN-a4L2	S12R000422	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0375	n/a	n/a	n/a	n/a	1.15E-05	0.60	
	2AN-a4L2	2AN-a4L2	S12R000422	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	110.51	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	7.50E-05	n/a	n/a	n/a	n/a	3.71E-06	13.65	
	2AN-a4L2	2AN-a4L2	S12R000422	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-a4L2	2AN-a4L2	S12R000422	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-a4L2	2AN-a4L2	S12R000422	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	8.70	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	108	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7429-90-5	Aluminum	ug/mL	100	<6.00E-03	7.60E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-38-2	Arsenic	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-41-7	Beryllium	ug/mL	99.6	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-69-9	Bismuth	ug/mL	101	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-70-2	Calcium	ug/mL	100	<0.0800	330	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-43-9	Cadmium	ug/mL	100	<1.00E-03	63.3	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-45-1	Cerium	ug/mL	98.6	0.0186	58.8	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-47-3	Chromium	ug/mL	101	<1.00E-03	58.4	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-50-8	Copper	ug/mL	102	<2.00E-03	24.3	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-53-1	Europium	ug/mL	103	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7439-89-6	Iron	ug/mL	99.7	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-09-7	Potassium	ug/mL	101	<0.0200	2.43E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7439-93-2	Lithium	ug/mL	99.9	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7439-96-5	Manganese	ug/mL	103	<1.00E-03	3.73	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.9	<1.00E-03	53.0	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-23-5	Sodium	ug/mL	102	<0.0400	2.39E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-00-8	Neodymium	ug/mL	103	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-02-0	Nickel	ug/mL	102	<1.00E-03	440	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-30-1	Niobium	ug/mL	100	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.9	<3.00E-03	1.83E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7439-92-1	Lead	ug/mL	102	<6.00E-03	119	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-05-3	Palladium	ug/mL	99.4	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-10-0	Praseodymium	ug/mL	99.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-17-7	Rubidium	ug/mL	101	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-16-6	Rhodium	ug/mL	99.4	<8.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	28.2	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7704-34-9	Sulfur	ug/mL	100	<5.00E-03	5.22E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-36-0	Antimony	ug/mL	98.5	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7782-49-2	Selenium	ug/mL	99.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-19-9	Samarium	ug/mL	102	0.0147	38.4	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-31-5	Tin	ug/mL	98.2	<3.00E-03	7.73	n/a	n/a	n/a	n/a	7.50	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-24-6	Strontium	ug/mL	101	<2.00E-03	68.7	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-25-7	Tantalum	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U

	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		13494-80-9	Tellurium	ug/mL	98.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-29-1	Thorium	ug/mL	101	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-32-6	Titanium	ug/mL	97.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-28-0	Thallium	ug/mL	100	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U

	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-62-2	Vanadium	ug/mL	99.7	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-33-7	Tungsten	ug/mL	98.2	<6.00E-03	137	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-65-5	Yttrium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	ICP-AES		7440-67-7	Zirconium	ug/mL	95.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L2	2AN-a4L2	S12R000422	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	4.66E+03	n/a	n/a	n/a	n/a	553	n/a	J
	2AN-a4L2	2AN-a4L2	S12R000422	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	1.67	n/a	n/a	n/a	n/a	0.0147	5.341	
	2AN-a4L2	2AN-a4L2	S12R000422	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	83.3	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	100	<7.00	1.32E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	89.1	<20.0	2.19E+04	n/a	n/a	n/a	n/a	200	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.169	n/a	n/a	n/a	n/a	4.11E-05	0.4	
	2AN-a4L2	2AN-a4L2	S12R000422	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	57.6	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L2	2AN-a4L2	S12R000422	pH of Liquids		PH	pH	unitless	n/a	n/a	13.5	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-a4L3	2AN-a4L3	S12R000423	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.19E-03	n/a	n/a	n/a	n/a	1.16E-05	3.59	
	2AN-a4L3	2AN-a4L3	S12R000423	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0363	n/a	n/a	n/a	n/a	1.13E-05	0.62	
	2AN-a4L3	2AN-a4L3	S12R000423	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	113.69	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	1.07E-04	n/a	n/a	n/a	n/a	3.76E-06	11.46	
	2AN-a4L3	2AN-a4L3	S12R000423	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-a4L3	2AN-a4L3	S12R000423	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.20	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	92.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	2.53	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7429-90-5	Aluminum	ug/mL	100	<6.00E-03	7.55E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-38-2	Arsenic	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-41-7	Beryllium	ug/mL	99.6	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-69-9	Bismuth	ug/mL	101	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-70-2	Calcium	ug/mL	100	<0.0800	328	n/a	n/a	n/a	n/a	200	n/a	J

	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-43-9	Cadmium	ug/mL	100	<1.00E-03	63.8	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-45-1	Cerium	ug/mL	98.6	0.0186	70.8	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-47-3	Chromium	ug/mL	101	<1.00E-03	58.0	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-50-8	Copper	ug/mL	102	<2.00E-03	22.3	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-53-1	Europium	ug/mL	103	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7439-89-6	Iron	ug/mL	99.7	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-09-7	Potassium	ug/mL	101	<0.0200	2.39E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7439-93-2	Lithium	ug/mL	99.9	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7439-96-5	Manganese	ug/mL	103	<1.00E-03	5.70	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.9	<1.00E-03	52.6	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-23-5	Sodium	ug/mL	102	<0.0400	2.39E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-00-8	Neodymium	ug/mL	103	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-02-0	Nickel	ug/mL	102	<1.00E-03	444	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-30-1	Niobium	ug/mL	100	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.9	<3.00E-03	1.83E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7439-92-1	Lead	ug/mL	102	<6.00E-03	131	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-05-3	Palladium	ug/mL	99.4	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-10-0	Praseodymium	ug/mL	99.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-17-7	Rubidium	ug/mL	101	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-16-6	Rhodium	ug/mL	99.4	<8.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	29.9	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7704-34-9	Sulfur	ug/mL	100	<5.00E-03	5.23E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-36-0	Antimony	ug/mL	98.5	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7782-49-2	Selenium	ug/mL	99.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-19-9	Samarium	ug/mL	102	0.0147	40.3	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-31-5	Tin	ug/mL	98.2	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-24-6	Strontium	ug/mL	101	<2.00E-03	77.3	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-25-7	Tantalum	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		13494-80-9	Tellurium	ug/mL	98.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-29-1	Thorium	ug/mL	101	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-32-6	Titanium	ug/mL	97.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-28-0	Thallium	ug/mL	100	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-62-2	Vanadium	ug/mL	99.7	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-33-7	Tungsten	ug/mL	98.2	<6.00E-03	155	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-65-5	Yttrium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-a4L3	2AN-a4L3	S12R000423	ICP-AES		7440-67-7	Zirconium	ug/mL	95.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U

	2AN-a4L3	2AN-a4L3	S12R000423	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	4.95E+03	n/a	n/a	n/a	n/a	553	n/a	J
	2AN-a4L3	2AN-a4L3	S12R000423	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	1.49	n/a	n/a	n/a	n/a	0.0145	5.642	
	2AN-a4L3	2AN-a4L3	S12R000423	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	84.2	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.35E+04	1.33E+04	1.34E+04	1.49	87.9	70.0	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	2.28E+04	2.31E+04	2.30E+04	1.31	78.7	200	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.167	n/a	n/a	n/a	n/a	4.11E-05	0.4	
	2AN-a4L3	2AN-a4L3	S12R000423	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	57.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4L3	2AN-a4L3	S12R000423	pH of Liquids		PH	pH	unitless	n/a	n/a	13.5	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-a4S1	2AN-a4S1	S12R000385	% Water by TGA		%WATER	Percent water	%	99.3	n/a	39.3	39.2	39.2	0.400	n/a	0.0100	n/a	
	2AN-a4S1	2AN-a4S1	S12R000385	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.90	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-a4S1	2AN-a4S1	S12R000385	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	208	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S1	2AN-a4S1	S12R000385	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S1	2AN-a4S1	S12R000385	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.74E+04	1.44E+04	1.59E+04	18.9	117	91.0	n/a	
	2AN-a4S1	2AN-a4S1	S12R000385	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.88E+04	1.95E+04	1.92E+04	3.66	115	260	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	6.72E-03	6.13E-03	6.42E-03	9.18	n/a	7.73E-05	3.69	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.213	0.215	0.214	0.935	n/a	6.60E-05	0.62	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	107.42	99.410	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	7.61E-04	7.78E-04	7.70E-04	2.21	n/a	4.16E-05	10.60	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	0.100	0.100	0.0	n/a	n/a	n/a	Q
	2AN-a4S1a	2AN-a4S1a	S12R000403	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.09E+04	2.06E+04	2.08E+04	1.60	-181	13.5	n/a	

	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<11.2	<10.8	n/a	n/a	99.4	11.2	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	206	205	205	0.412	97.9	2.25	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.25	<2.17	n/a	n/a	97.9	2.25	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<13.5	<13.0	n/a	n/a	99.5	13.5	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	683	678	680	0.707	88.9	180	n/a	J
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	43.0	42.5	42.8	1.15	101	2.25	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<13.5	<13.0	n/a	n/a	90.2	13.5	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	559	546	552	2.33	94.0	2.25	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.25	<2.17	n/a	n/a	95.4	2.25	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	94.5	104	99.3	9.66	100	22.5	n/a	J
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.41E+03	1.39E+03	1.40E+03	2.08	88.2	45.0	n/a	

	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	30.1	29.8	30.0	1.05	99.3	2.25	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.25	<2.17	n/a	n/a	103	2.25	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.50	<4.33	n/a	n/a	99.1	4.50	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	8.70E+03	8.60E+03	8.65E+03	1.22	-23.5	2.25	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	33.1	32.5	32.8	1.86	97.9	2.25	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.60E+05	1.55E+05	1.57E+05	3.03	-2170	90.0	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	34.2	31.8	33.0	7.26	92.3	6.75	n/a	J
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	269	267	268	0.669	97.9	2.25	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.75	<6.50	n/a	n/a	25.3	6.75	n/a	Uab
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.30E+03	1.19E+03	1.24E+03	8.32	70.6	6.75	n/a	b
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	188	182	185	3.37	96.4	13.5	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	10.9	<8.67	n/a	n/a	93.6	9.00	n/a	J
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	<67.5	<65.0	n/a	n/a	96.1	67.5	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<18.0	<17.3	n/a	n/a	90.7	18.0	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	3.15E+03	3.11E+03	3.13E+03	1.23	52.0	11.2	n/a	b
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<13.5	<13.0	n/a	n/a	94.9	13.5	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<13.5	<13.0	n/a	n/a	98.8	13.5	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<11.2	<10.8	n/a	n/a	94.2	11.2	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	<6.75	<6.50	n/a	n/a	90.7	6.75	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.38E+04	1.36E+04	1.37E+04	1.40	-122	4.50	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<11.2	<10.8	n/a	n/a	91.7	11.2	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	26.4	<10.8	n/a	n/a	94.2	11.2	n/a	J
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.25	<2.17	n/a	n/a	98.2	2.25	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<13.5	<13.0	n/a	n/a	90.9	13.5	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.25	<2.17	n/a	n/a	101	2.25	n/a	U
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	114	102	108	11.0	54.6	13.5	n/a	Ja
	2AN-a4S1a	2AN-a4S1a	S12R000403	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	<4.50	<4.33	n/a	n/a	94.9	4.50	n/a	Ub
	2AN-a4S1a	2AN-a4S1a	S12R000403	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	180	171	175	4.70	n/a	0.0335	0.756	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	79.9	80.8	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.102	0.0953	0.0988	7.11	n/a	8.57E-03	13	
	2AN-a4S1a	2AN-a4S1a	S12R000403	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	58.3	60.1	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2	2AN-a4S2	S12R000386	% Water by TGA		%WATER	Percent water	%	99.3	n/a	39.0	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-a4S2	2AN-a4S2	S12R000386	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.70	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-a4S2	2AN-a4S2	S12R000386	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	308	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2	2AN-a4S2	S12R000386	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2	2AN-a4S2	S12R000386	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.37E+04	n/a	n/a	n/a	n/a	108	n/a	

	2AN-a4S2	2AN-a4S2	S12R000386	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.86E+04	n/a	n/a	n/a	n/a	309	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	7.33E-03	n/a	n/a	n/a	n/a	7.33E-05	3.63	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.221	n/a	n/a	n/a	n/a	7.95E-05	0.62	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	107.71	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	7.10E-04	n/a	n/a	n/a	n/a	2.40E-05	11.25	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-a4S2a	2AN-a4S2a	S12R000404	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.19E+04	n/a	n/a	n/a	n/a	14.1	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<11.8	n/a	n/a	n/a	n/a	11.8	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	221	n/a	n/a	n/a	n/a	2.36	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.36	n/a	n/a	n/a	n/a	2.36	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<14.1	n/a	n/a	n/a	n/a	14.1	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	714	n/a	n/a	n/a	n/a	189	n/a	J
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	42.3	n/a	n/a	n/a	n/a	2.36	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<14.1	n/a	n/a	n/a	n/a	14.1	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	575	n/a	n/a	n/a	n/a	2.36	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.36	n/a	n/a	n/a	n/a	2.36	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	98.5	n/a	n/a	n/a	n/a	23.6	n/a	J
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.43E+03	n/a	n/a	n/a	n/a	47.1	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	32.6	n/a	n/a	n/a	n/a	2.36	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.36	n/a	n/a	n/a	n/a	2.36	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.71	n/a	n/a	n/a	n/a	4.71	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	8.92E+03	n/a	n/a	n/a	n/a	2.36	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	31.7	n/a	n/a	n/a	n/a	2.36	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.60E+05	n/a	n/a	n/a	n/a	94.3	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	32.1	n/a	n/a	n/a	n/a	7.07	n/a	J
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	265	n/a	n/a	n/a	n/a	2.36	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<7.07	n/a	n/a	n/a	n/a	7.07	n/a	Ua
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.60E+03	n/a	n/a	n/a	n/a	7.07	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	190	n/a	n/a	n/a	n/a	14.1	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	11.3	n/a	n/a	n/a	n/a	9.43	n/a	J
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	<70.7	n/a	n/a	n/a	n/a	70.7	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<18.9	n/a	n/a	n/a	n/a	18.9	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	3.09E+03	n/a	n/a	n/a	n/a	11.8	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<14.1	n/a	n/a	n/a	n/a	14.1	n/a	U

	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<14.1	n/a	n/a	n/a	n/a	14.1	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<11.8	n/a	n/a	n/a	n/a	11.8	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	7.78	n/a	n/a	n/a	n/a	7.07	n/a	J
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.49E+04	n/a	n/a	n/a	n/a	4.71	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<11.8	n/a	n/a	n/a	n/a	11.8	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	14.0	n/a	n/a	n/a	n/a	11.8	n/a	J
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.36	n/a	n/a	n/a	n/a	2.36	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<14.1	n/a	n/a	n/a	n/a	14.1	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.36	n/a	n/a	n/a	n/a	2.36	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	108	n/a	n/a	n/a	n/a	14.1	n/a	Ja

	2AN-a4S2a	2AN-a4S2a	S12R000404	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	<4.71	n/a	n/a	n/a	n/a	4.71	n/a	U
	2AN-a4S2a	2AN-a4S2a	S12R000404	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	190	n/a	n/a	n/a	n/a	0.0350	0.752	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	79.9	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0988	n/a	n/a	n/a	n/a	8.98E-03	14	
	2AN-a4S2a	2AN-a4S2a	S12R000404	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	58.6	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3	2AN-a4S3	S12R000387	% Water by TGA		%WATER	Percent water	%	99.3	n/a	41.4	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-a4S3	2AN-a4S3	S12R000387	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	2.20	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-a4S3	2AN-a4S3	S12R000387	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	306	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3	2AN-a4S3	S12R000387	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3	2AN-a4S3	S12R000387	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.51E+04	n/a	n/a	n/a	n/a	104	n/a	
	2AN-a4S3	2AN-a4S3	S12R000387	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.90E+04	n/a	n/a	n/a	n/a	299	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	6.82E-03	n/a	n/a	n/a	n/a	5.71E-05	3.80	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.215	n/a	n/a	n/a	n/a	6.65E-05	0.64	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	95.670	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	8.77E-04	n/a	n/a	n/a	n/a	2.45E-05	10.22	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-a4S3a	2AN-a4S3a	S12R000405	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.14E+04	n/a	n/a	n/a	n/a	13.1	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<10.9	n/a	n/a	n/a	n/a	10.9	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	196	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U

	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	666	n/a	n/a	n/a	n/a	174	n/a	J
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	42.8	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	561	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	99.2	n/a	n/a	n/a	n/a	21.8	n/a	J
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.39E+03	n/a	n/a	n/a	n/a	43.6	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	30.3	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.36	n/a	n/a	n/a	n/a	4.36	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	8.64E+03	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	32.5	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.57E+05	n/a	n/a	n/a	n/a	87.1	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	32.3	n/a	n/a	n/a	n/a	6.54	n/a	J
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	263	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.54	n/a	n/a	n/a	n/a	6.54	n/a	Ua
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.19E+03	n/a	n/a	n/a	n/a	6.54	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	176	n/a	n/a	n/a	n/a	13.1	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	<8.71	n/a	n/a	n/a	n/a	8.71	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	<65.4	n/a	n/a	n/a	n/a	65.4	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	3.06E+03	n/a	n/a	n/a	n/a	10.9	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<10.9	n/a	n/a	n/a	n/a	10.9	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	<6.54	n/a	n/a	n/a	n/a	6.54	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.30E+04	n/a	n/a	n/a	n/a	4.36	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<10.9	n/a	n/a	n/a	n/a	10.9	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	21.4	n/a	n/a	n/a	n/a	10.9	n/a	J
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	111	n/a	n/a	n/a	n/a	13.1	n/a	Ja
	2AN-a4S3a	2AN-a4S3a	S12R000405	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	<4.36	n/a	n/a	n/a	n/a	4.36	n/a	U
	2AN-a4S3a	2AN-a4S3a	S12R000405	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	167	n/a	n/a	n/a	n/a	0.0316	0.762	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	81.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-a4S3a	2AN-a4S3a	S12R000405	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-a4S3a	2AN-a4S3a	S12R000405	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0922	n/a	n/a	n/a	n/a	8.42E-03	14.1	
	2AN-a4S3a	2AN-a4S3a	S12R000405	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	57.9	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.14E-03	n/a	n/a	n/a	n/a	1.32E-05	3.55	
	2AN-b4L1	2AN-b4L1	S12R000424	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0360	n/a	n/a	n/a	n/a	1.67E-05	0.60	
	2AN-b4L1	2AN-b4L1	S12R000424	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	83.600	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	9.35E-05	n/a	n/a	n/a	n/a	3.51E-06	11.86	
	2AN-b4L1	2AN-b4L1	S12R000424	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-b4L1	2AN-b4L1	S12R000424	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.70	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7429-90-5	Aluminum	ug/mL	100	<6.00E-03	9.42E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-38-2	Arsenic	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-41-7	Beryllium	ug/mL	99.6	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-69-9	Bismuth	ug/mL	101	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-70-2	Calcium	ug/mL	100	<0.0800	322	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-43-9	Cadmium	ug/mL	100	<1.00E-03	57.8	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-45-1	Cerium	ug/mL	98.6	0.0186	53.0	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-47-3	Chromium	ug/mL	101	<1.00E-03	59.4	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-50-8	Copper	ug/mL	102	<2.00E-03	19.7	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-53-1	Europium	ug/mL	103	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7439-89-6	Iron	ug/mL	99.7	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-09-7	Potassium	ug/mL	101	<0.0200	2.18E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7439-93-2	Lithium	ug/mL	99.9	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7439-96-5	Manganese	ug/mL	103	<1.00E-03	6.44	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.9	<1.00E-03	48.6	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-23-5	Sodium	ug/mL	102	<0.0400	2.24E+05	n/a	n/a	n/a	n/a	100	n/a	

	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-00-8	Neodymium	ug/mL	103	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-02-0	Nickel	ug/mL	102	<1.00E-03	400	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-30-1	Niobium	ug/mL	100	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.9	<3.00E-03	1.66E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7439-92-1	Lead	ug/mL	102	<6.00E-03	124	n/a	n/a	n/a	n/a	15.0	n/a	J

	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-05-3	Palladium	ug/mL	99.4	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-10-0	Praseodymium	ug/mL	99.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-17-7	Rubidium	ug/mL	101	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-16-6	Rhodium	ug/mL	99.4	<8.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	26.4	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7704-34-9	Sulfur	ug/mL	100	<5.00E-03	4.75E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-36-0	Antimony	ug/mL	98.5	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7782-49-2	Selenium	ug/mL	99.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-19-9	Samarium	ug/mL	102	0.0147	35.7	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-31-5	Tin	ug/mL	98.2	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-24-6	Strontium	ug/mL	101	<2.00E-03	69.6	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-25-7	Tantalum	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		13494-80-9	Tellurium	ug/mL	98.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-29-1	Thorium	ug/mL	101	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-32-6	Titanium	ug/mL	97.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-28-0	Thallium	ug/mL	100	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-62-2	Vanadium	ug/mL	99.7	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-33-7	Tungsten	ug/mL	98.2	<6.00E-03	132	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-65-5	Yttrium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	ICP-AES		7440-67-7	Zirconium	ug/mL	95.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L1	2AN-b4L1	S12R000424	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.61E+03	n/a	n/a	n/a	n/a	553	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	1.40	n/a	n/a	n/a	n/a	0.0147	5.877	
	2AN-b4L1	2AN-b4L1	S12R000424	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	82.9	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	100	<7.00	1.17E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	89.1	<20.0	1.94E+04	n/a	n/a	n/a	n/a	200	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.155	n/a	n/a	n/a	n/a	4.08E-05	0.5	
	2AN-b4L1	2AN-b4L1	S12R000424	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	58.4	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L1	2AN-b4L1	S12R000424	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-b4L2	2AN-b4L2	S12R000425	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.17E-03	n/a	n/a	n/a	n/a	1.21E-05	3.23	
	2AN-b4L2	2AN-b4L2	S12R000425	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0355	n/a	n/a	n/a	n/a	1.09E-05	0.56	
	2AN-b4L2	2AN-b4L2	S12R000425	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	95.910	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	1.02E-04	n/a	n/a	n/a	n/a	5.42E-06	10.44	
	2AN-b4L2	2AN-b4L2	S12R000425	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q

	2AN-b4L2	2AN-b4L2	S12R000425	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.20	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7429-90-5	Aluminum	ug/mL	100	<6.00E-03	9.57E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-38-2	Arsenic	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-41-7	Beryllium	ug/mL	99.6	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-69-9	Bismuth	ug/mL	101	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-70-2	Calcium	ug/mL	100	<0.0800	326	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-43-9	Cadmium	ug/mL	100	<1.00E-03	58.8	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-45-1	Cerium	ug/mL	98.6	0.0186	56.4	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-47-3	Chromium	ug/mL	101	<1.00E-03	59.7	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-50-8	Copper	ug/mL	102	<2.00E-03	22.6	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-53-1	Europium	ug/mL	103	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7439-89-6	Iron	ug/mL	99.7	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-09-7	Potassium	ug/mL	101	<0.0200	2.17E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7439-93-2	Lithium	ug/mL	99.9	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7439-96-5	Manganese	ug/mL	103	<1.00E-03	3.39	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.9	<1.00E-03	49.1	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-23-5	Sodium	ug/mL	102	<0.0400	2.25E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-00-8	Neodymium	ug/mL	103	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-02-0	Nickel	ug/mL	102	<1.00E-03	405	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-30-1	Niobium	ug/mL	100	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.9	<3.00E-03	1.69E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7439-92-1	Lead	ug/mL	102	<6.00E-03	123	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-05-3	Palladium	ug/mL	99.4	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-10-0	Praseodymium	ug/mL	99.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-17-7	Rubidium	ug/mL	101	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-16-6	Rhodium	ug/mL	99.4	<8.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	20.4	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7704-34-9	Sulfur	ug/mL	100	<5.00E-03	4.80E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-36-0	Antimony	ug/mL	98.5	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7782-49-2	Selenium	ug/mL	99.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-19-9	Samarium	ug/mL	102	0.0147	32.9	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-31-5	Tin	ug/mL	98.2	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U

	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-24-6	Strontium	ug/mL	101	<2.00E-03	69.8	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-25-7	Tantalum	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		13494-80-9	Tellurium	ug/mL	98.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-29-1	Thorium	ug/mL	101	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-32-6	Titanium	ug/mL	97.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-28-0	Thallium	ug/mL	100	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-62-2	Vanadium	ug/mL	99.7	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-33-7	Tungsten	ug/mL	98.2	<6.00E-03	126	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-65-5	Yttrium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	ICP-AES		7440-67-7	Zirconium	ug/mL	95.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L2	2AN-b4L2	S12R000425	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.67E+03	n/a	n/a	n/a	n/a	553	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	1.48	n/a	n/a	n/a	n/a	0.0144	5.628	
	2AN-b4L2	2AN-b4L2	S12R000425	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	84.6	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-b4L2	2AN-b4L2	S12R000425	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.27E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	1.83E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.159	n/a	n/a	n/a	n/a	4.17E-05	0.5	
	2AN-b4L2	2AN-b4L2	S12R000425	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	57.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L2	2AN-b4L2	S12R000425	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-b4L3	2AN-b4L3	S12R000426	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.13E-03	n/a	n/a	n/a	n/a	7.68E-06	3.10	
	2AN-b4L3	2AN-b4L3	S12R000426	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0350	n/a	n/a	n/a	n/a	7.32E-06	0.52	
	2AN-b4L3	2AN-b4L3	S12R000426	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	109.34	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	7.55E-05	n/a	n/a	n/a	n/a	6.33E-06	11.49	
	2AN-b4L3	2AN-b4L3	S12R000426	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-b4L3	2AN-b4L3	S12R000426	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.60	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	96.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7429-90-5	Aluminum	ug/mL	100	<6.00E-03	9.65E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-38-2	Arsenic	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-41-7	Beryllium	ug/mL	99.6	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U

	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-69-9	Bismuth	ug/mL	101	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-70-2	Calcium	ug/mL	100	<0.0800	325	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-43-9	Cadmium	ug/mL	100	<1.00E-03	59.6	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-45-1	Cerium	ug/mL	98.6	0.0186	59.8	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-47-3	Chromium	ug/mL	101	<1.00E-03	59.9	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-50-8	Copper	ug/mL	102	<2.00E-03	21.8	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-53-1	Europium	ug/mL	103	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7439-89-6	Iron	ug/mL	99.7	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-09-7	Potassium	ug/mL	101	<0.0200	2.17E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7439-93-2	Lithium	ug/mL	99.9	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7439-96-5	Manganese	ug/mL	103	<1.00E-03	4.80	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.9	<1.00E-03	47.3	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-23-5	Sodium	ug/mL	102	<0.0400	2.25E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-00-8	Neodymium	ug/mL	103	<3.00E-03	8.74	n/a	n/a	n/a	n/a	7.50	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-02-0	Nickel	ug/mL	102	<1.00E-03	410	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-30-1	Niobium	ug/mL	100	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.9	<3.00E-03	1.70E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7439-92-1	Lead	ug/mL	102	<6.00E-03	115	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-05-3	Palladium	ug/mL	99.4	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-10-0	Praseodymium	ug/mL	99.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-17-7	Rubidium	ug/mL	101	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-16-6	Rhodium	ug/mL	99.4	<8.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	29.1	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7704-34-9	Sulfur	ug/mL	100	<5.00E-03	4.85E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-36-0	Antimony	ug/mL	98.5	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7782-49-2	Selenium	ug/mL	99.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-19-9	Samarium	ug/mL	102	0.0147	34.9	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-31-5	Tin	ug/mL	98.2	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-24-6	Strontium	ug/mL	101	<2.00E-03	72.0	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-25-7	Tantalum	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		13494-80-9	Tellurium	ug/mL	98.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-29-1	Thorium	ug/mL	101	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-32-6	Titanium	ug/mL	97.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-28-0	Thallium	ug/mL	100	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-62-2	Vanadium	ug/mL	99.7	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-33-7	Tungsten	ug/mL	98.2	<6.00E-03	130	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-65-5	Yttrium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U

	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	ICP-AES		7440-67-7	Zirconium	ug/mL	95.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-b4L3	2AN-b4L3	S12R000426	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.34E+03	n/a	n/a	n/a	n/a	553	n/a	J
	2AN-b4L3	2AN-b4L3	S12R000426	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	1.46	n/a	n/a	n/a	n/a	0.0143	5.651	
	2AN-b4L3	2AN-b4L3	S12R000426	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	85.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.18E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	2.00E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.172	n/a	n/a	n/a	n/a	4.57E-05	0.5	
	2AN-b4L3	2AN-b4L3	S12R000426	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	51.9	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4L3	2AN-b4L3	S12R000426	pH of Liquids		PH	pH	unitless	n/a	n/a	13.5	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-b4S1	2AN-b4S1	S12R000388	% Water by TGA		%WATER	Percent water	%	101	n/a	43.4	43.6	43.5	0.554	n/a	0.0100	n/a	
	2AN-b4S1	2AN-b4S1	S12R000388	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	2.00	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-b4S1	2AN-b4S1	S12R000388	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	366	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1	2AN-b4S1	S12R000388	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1	2AN-b4S1	S12R000388	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.25E+04	n/a	n/a	n/a	n/a	101	n/a	
	2AN-b4S1	2AN-b4S1	S12R000388	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.71E+04	n/a	n/a	n/a	n/a	288	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	9.27E-03	n/a	n/a	n/a	n/a	5.35E-05	3.15	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.294	n/a	n/a	n/a	n/a	5.80E-05	0.53	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	104.99	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	1.21E-03	n/a	n/a	n/a	n/a	4.16E-05	8.40	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-b4S1a	2AN-b4S1a	S12R000406	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.15E+04	n/a	n/a	n/a	n/a	13.3	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<11.0	n/a	n/a	n/a	n/a	11.0	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	249	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.21	n/a	n/a	n/a	n/a	2.21	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<13.3	n/a	n/a	n/a	n/a	13.3	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	735	n/a	n/a	n/a	n/a	177	n/a	J
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	42.0	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<13.3	n/a	n/a	n/a	n/a	13.3	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	777	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.21	n/a	n/a	n/a	n/a	2.21	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	129	n/a	n/a	n/a	n/a	22.1	n/a	J

	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.37E+03	n/a	n/a	n/a	n/a	44.2	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	40.2	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.21	n/a	n/a	n/a	n/a	2.21	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.42	n/a	n/a	n/a	n/a	4.42	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	1.19E+04	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	31.6	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.45E+05	n/a	n/a	n/a	n/a	88.4	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	48.2	n/a	n/a	n/a	n/a	6.63	n/a	J
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	257	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.63	n/a	n/a	n/a	n/a	6.63	n/a	Ua
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.15E+03	n/a	n/a	n/a	n/a	6.63	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	218	n/a	n/a	n/a	n/a	13.3	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	13.5	n/a	n/a	n/a	n/a	8.84	n/a	J
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	<66.3	n/a	n/a	n/a	n/a	66.3	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<17.7	n/a	n/a	n/a	n/a	17.7	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	2.97E+03	n/a	n/a	n/a	n/a	11.0	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<13.3	n/a	n/a	n/a	n/a	13.3	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<13.3	n/a	n/a	n/a	n/a	13.3	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<11.0	n/a	n/a	n/a	n/a	11.0	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	<6.63	n/a	n/a	n/a	n/a	6.63	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.62E+04	n/a	n/a	n/a	n/a	4.42	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<11.0	n/a	n/a	n/a	n/a	11.0	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	29.4	n/a	n/a	n/a	n/a	11.0	n/a	J
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.21	n/a	n/a	n/a	n/a	2.21	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<13.3	n/a	n/a	n/a	n/a	13.3	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.21	n/a	n/a	n/a	n/a	2.21	n/a	U
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	98.0	n/a	n/a	n/a	n/a	13.3	n/a	Ja
	2AN-b4S1a	2AN-b4S1a	S12R000406	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	6.46	n/a	n/a	n/a	n/a	4.42	n/a	J
	2AN-b4S1a	2AN-b4S1a	S12R000406	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	217	n/a	n/a	n/a	n/a	0.0322	0.674	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	81.2	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0915	n/a	n/a	n/a	n/a	0.0105	17.2	
	2AN-b4S1a	2AN-b4S1a	S12R000406	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	47.4	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2	2AN-b4S2	S12R000389	% Water by TGA		%WATER	Percent water	%	101	n/a	41.3	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-b4S2	2AN-b4S2	S12R000389	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	2.20	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-b4S2	2AN-b4S2	S12R000389	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	408	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2	2AN-b4S2	S12R000389	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-b4S2	2AN-b4S2	S12R000389	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.18E+04	n/a	n/a	n/a	n/a	102	n/a	
	2AN-b4S2	2AN-b4S2	S12R000389	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.72E+04	n/a	n/a	n/a	n/a	292	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	8.21E-03	n/a	n/a	n/a	n/a	9.21E-05	3.37	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.285	n/a	n/a	n/a	n/a	9.41E-05	0.54	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	98.690	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	1.11E-03	n/a	n/a	n/a	n/a	2.30E-05	8.77	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-b4S2a	2AN-b4S2a	S12R000407	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.21E+04	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	254	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.08	n/a	n/a	n/a	n/a	2.08	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	741	n/a	n/a	n/a	n/a	166	n/a	J
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	41.2	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	754	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.08	n/a	n/a	n/a	n/a	2.08	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	128	n/a	n/a	n/a	n/a	20.8	n/a	J
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.38E+03	n/a	n/a	n/a	n/a	41.5	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	39.9	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.08	n/a	n/a	n/a	n/a	2.08	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.15	n/a	n/a	n/a	n/a	4.15	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	1.19E+04	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	31.9	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.47E+05	n/a	n/a	n/a	n/a	83.0	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	46.8	n/a	n/a	n/a	n/a	6.23	n/a	J
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	258	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.23	n/a	n/a	n/a	n/a	6.23	n/a	Ua
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.08E+03	n/a	n/a	n/a	n/a	6.23	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	214	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	14.5	n/a	n/a	n/a	n/a	8.30	n/a	J
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<16.6	n/a	n/a	n/a	n/a	16.6	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	2.98E+03	n/a	n/a	n/a	n/a	10.4	n/a	

	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	<6.23	n/a	n/a	n/a	n/a	6.23	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.65E+04	n/a	n/a	n/a	n/a	4.15	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	29.7	n/a	n/a	n/a	n/a	10.4	n/a	J
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.08	n/a	n/a	n/a	n/a	2.08	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.08	n/a	n/a	n/a	n/a	2.08	n/a	U
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	105	n/a	n/a	n/a	n/a	12.5	n/a	Ja
	2AN-b4S2a	2AN-b4S2a	S12R000407	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	4.37	n/a	n/a	n/a	n/a	4.15	n/a	J
	2AN-b4S2a	2AN-b4S2a	S12R000407	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	220	n/a	n/a	n/a	n/a	0.0307	0.654	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	79.8	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0821	n/a	n/a	n/a	n/a	7.99E-03	14.9	
	2AN-b4S2a	2AN-b4S2a	S12R000407	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	58.1	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3	2AN-b4S3	S12R000390	% Water by TGA		%WATER	Percent water	%	101	n/a	43.5	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-b4S3	2AN-b4S3	S12R000390	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	2.40	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-b4S3	2AN-b4S3	S12R000390	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	408	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-b4S3	2AN-b4S3	S12R000390	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3	2AN-b4S3	S12R000390	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.21E+04	n/a	n/a	n/a	n/a	103	n/a	
	2AN-b4S3	2AN-b4S3	S12R000390	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.79E+04	n/a	n/a	n/a	n/a	294	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	8.49E-03	n/a	n/a	n/a	n/a	5.47E-05	3.15	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.283	n/a	n/a	n/a	n/a	7.70E-05	0.51	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	107.48	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	1.20E-03	n/a	n/a	n/a	n/a	3.80E-05	8.06	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-b4S3a	2AN-b4S3a	S12R000408	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.22E+04	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	255	n/a	n/a	n/a	n/a	2.09	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U

	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	751	n/a	n/a	n/a	n/a	167	n/a	J
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	42.1	n/a	n/a	n/a	n/a	2.09	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	750	n/a	n/a	n/a	n/a	2.09	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	128	n/a	n/a	n/a	n/a	20.9	n/a	J
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.39E+03	n/a	n/a	n/a	n/a	41.8	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	40.4	n/a	n/a	n/a	n/a	2.09	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.18	n/a	n/a	n/a	n/a	4.18	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	1.19E+04	n/a	n/a	n/a	n/a	2.09	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	31.6	n/a	n/a	n/a	n/a	2.09	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.47E+05	n/a	n/a	n/a	n/a	83.5	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	50.4	n/a	n/a	n/a	n/a	6.26	n/a	J
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	255	n/a	n/a	n/a	n/a	2.09	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.26	n/a	n/a	n/a	n/a	6.26	n/a	Ua
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.11E+03	n/a	n/a	n/a	n/a	6.26	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	217	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	<8.35	n/a	n/a	n/a	n/a	8.35	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	82.3	n/a	n/a	n/a	n/a	62.6	n/a	J
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<16.7	n/a	n/a	n/a	n/a	16.7	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	2.98E+03	n/a	n/a	n/a	n/a	10.4	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	<6.26	n/a	n/a	n/a	n/a	6.26	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.67E+04	n/a	n/a	n/a	n/a	4.18	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	20.0	n/a	n/a	n/a	n/a	10.4	n/a	J
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	92.7	n/a	n/a	n/a	n/a	12.5	n/a	Ja
	2AN-b4S3a	2AN-b4S3a	S12R000408	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	<4.18	n/a	n/a	n/a	n/a	4.18	n/a	U
	2AN-b4S3a	2AN-b4S3a	S12R000408	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	226	n/a	n/a	n/a	n/a	0.0311	0.649	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	79.2	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-b4S3a	2AN-b4S3a	S12R000408	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0901	n/a	n/a	n/a	n/a	8.12E-03	14	
	2AN-b4S3a	2AN-b4S3a	S12R000408	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	57.5	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.36E-03	n/a	n/a	n/a	n/a	9.11E-06	2.89	
	2AN-c4L1	2AN-c4L1	S12R000427	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0413	n/a	n/a	n/a	n/a	1.14E-05	0.50	
	2AN-c4L1	2AN-c4L1	S12R000427	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	104.88	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	1.11E-04	n/a	n/a	n/a	n/a	5.63E-06	9.67	
	2AN-c4L1	2AN-c4L1	S12R000427	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-c4L1	2AN-c4L1	S12R000427	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.00	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	84.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7429-90-5	Aluminum	ug/mL	100	<6.00E-03	9.20E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-38-2	Arsenic	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-41-7	Beryllium	ug/mL	99.6	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-69-9	Bismuth	ug/mL	101	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-70-2	Calcium	ug/mL	100	<0.0800	319	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-43-9	Cadmium	ug/mL	100	<1.00E-03	58.8	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-45-1	Cerium	ug/mL	98.6	0.0186	50.3	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-47-3	Chromium	ug/mL	101	<1.00E-03	69.1	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-50-8	Copper	ug/mL	102	<2.00E-03	22.7	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-53-1	Europium	ug/mL	103	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7439-89-6	Iron	ug/mL	99.7	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-09-7	Potassium	ug/mL	101	<0.0200	2.19E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7439-93-2	Lithium	ug/mL	99.9	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7439-96-5	Manganese	ug/mL	103	<1.00E-03	3.94	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.9	<1.00E-03	47.9	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-23-5	Sodium	ug/mL	102	<0.0400	2.23E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-00-8	Neodymium	ug/mL	103	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-02-0	Nickel	ug/mL	102	<1.00E-03	406	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-30-1	Niobium	ug/mL	100	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.9	<3.00E-03	1.67E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7439-92-1	Lead	ug/mL	102	<6.00E-03	118	n/a	n/a	n/a	n/a	15.0	n/a	J

	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-05-3	Palladium	ug/mL	99.4	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-10-0	Praseodymium	ug/mL	99.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-17-7	Rubidium	ug/mL	101	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-16-6	Rhodium	ug/mL	99.4	<8.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	27.9	n/a	n/a	n/a	n/a	10.0	n/a	J

	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7704-34-9	Sulfur	ug/mL	100	<5.00E-03	4.80E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-36-0	Antimony	ug/mL	98.5	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7782-49-2	Selenium	ug/mL	99.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-19-9	Samarium	ug/mL	102	0.0147	32.7	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-31-5	Tin	ug/mL	98.2	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-24-6	Strontium	ug/mL	101	<2.00E-03	72.4	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-25-7	Tantalum	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		13494-80-9	Tellurium	ug/mL	98.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-29-1	Thorium	ug/mL	101	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-32-6	Titanium	ug/mL	97.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-28-0	Thallium	ug/mL	100	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-62-2	Vanadium	ug/mL	99.7	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-33-7	Tungsten	ug/mL	98.2	<6.00E-03	126	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-65-5	Yttrium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	ICP-AES		7440-67-7	Zirconium	ug/mL	95.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L1	2AN-c4L1	S12R000427	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.77E+03	n/a	n/a	n/a	n/a	553	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	1.97	n/a	n/a	n/a	n/a	0.0142	4.816	
	2AN-c4L1	2AN-c4L1	S12R000427	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	85.1	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.32E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	2.20E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.151	n/a	n/a	n/a	n/a	3.93E-05	0.5	
	2AN-c4L1	2AN-c4L1	S12R000427	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	60.5	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L1	2AN-c4L1	S12R000427	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	13.5	13.5	0.295	n/a	0.0100	n/a	E
	2AN-c4L2	2AN-c4L2	S12R000428	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.30E-03	n/a	n/a	n/a	n/a	9.60E-06	3.37	
	2AN-c4L2	2AN-c4L2	S12R000428	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0412	n/a	n/a	n/a	n/a	1.23E-05	0.57	
	2AN-c4L2	2AN-c4L2	S12R000428	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	80.260	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	1.01E-04	n/a	n/a	n/a	n/a	3.63E-06	11.60	
	2AN-c4L2	2AN-c4L2	S12R000428	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-c4L2	2AN-c4L2	S12R000428	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-c4L2	2AN-c4L2	S12R000428	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.60	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7429-90-5	Aluminum	ug/mL	100	<6.00E-03	8.85E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-38-2	Arsenic	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-41-7	Beryllium	ug/mL	99.6	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-69-9	Bismuth	ug/mL	101	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-70-2	Calcium	ug/mL	100	<0.0800	311	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-43-9	Cadmium	ug/mL	100	<1.00E-03	58.1	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-45-1	Cerium	ug/mL	98.6	0.0186	68.3	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-47-3	Chromium	ug/mL	101	<1.00E-03	68.0	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-50-8	Copper	ug/mL	102	<2.00E-03	22.6	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-53-1	Europium	ug/mL	103	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7439-89-6	Iron	ug/mL	99.7	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-09-7	Potassium	ug/mL	101	<0.0200	2.11E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7439-93-2	Lithium	ug/mL	99.9	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7439-96-5	Manganese	ug/mL	103	<1.00E-03	3.91	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.9	<1.00E-03	47.3	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-23-5	Sodium	ug/mL	102	<0.0400	2.20E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-00-8	Neodymium	ug/mL	103	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-02-0	Nickel	ug/mL	102	<1.00E-03	399	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-30-1	Niobium	ug/mL	100	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.9	<3.00E-03	1.61E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7439-92-1	Lead	ug/mL	102	<6.00E-03	114	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-05-3	Palladium	ug/mL	99.4	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-10-0	Praseodymium	ug/mL	99.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-17-7	Rubidium	ug/mL	101	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-16-6	Rhodium	ug/mL	99.4	<8.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	26.4	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7704-34-9	Sulfur	ug/mL	100	<5.00E-03	4.73E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-36-0	Antimony	ug/mL	98.5	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7782-49-2	Selenium	ug/mL	99.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-19-9	Samarium	ug/mL	102	0.0147	34.5	n/a	n/a	n/a	n/a	12.5	n/a	J

	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-31-5	Tin	ug/mL	98.2	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-24-6	Strontium	ug/mL	101	<2.00E-03	72.6	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-25-7	Tantalum	ug/mL	99.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		13494-80-9	Tellurium	ug/mL	98.0	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-29-1	Thorium	ug/mL	101	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-32-6	Titanium	ug/mL	97.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-28-0	Thallium	ug/mL	100	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-62-2	Vanadium	ug/mL	99.7	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-33-7	Tungsten	ug/mL	98.2	<6.00E-03	118	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-65-5	Yttrium	ug/mL	101	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	ICP-AES		7440-67-7	Zirconium	ug/mL	95.4	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L2	2AN-c4L2	S12R000428	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.61E+03	n/a	n/a	n/a	n/a	553	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	2.10	n/a	n/a	n/a	n/a	0.0144	4.687	
	2AN-c4L2	2AN-c4L2	S12R000428	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	84.1	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.17E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	1.94E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.148	n/a	n/a	n/a	n/a	4.07E-05	0.5	
	2AN-c4L2	2AN-c4L2	S12R000428	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	58.5	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L2	2AN-c4L2	S12R000428	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-c4L3	2AN-c4L3	S12R000429	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.26E-03	n/a	n/a	n/a	n/a	6.91E-06	2.90	
	2AN-c4L3	2AN-c4L3	S12R000429	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0390	n/a	n/a	n/a	n/a	8.80E-06	0.49	
	2AN-c4L3	2AN-c4L3	S12R000429	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	114.67	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	1.15E-04	n/a	n/a	n/a	n/a	4.67E-06	9.15	
	2AN-c4L3	2AN-c4L3	S12R000429	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-c4L3	2AN-c4L3	S12R000429	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.80	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	102	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	9.21E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U

	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	308	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	57.3	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	69.5	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	21.4	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.38E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	6.69	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	48.3	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.43E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	414	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.63E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	137	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	10.4	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	23.7	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	4.98E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	79.9	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	76.5	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	62.2	n/a	n/a	n/a	n/a	50.0	n/a	J
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	137	n/a	n/a	n/a	n/a	15.0	n/a	J

	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-c4L3	2AN-c4L3	S12R000429	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	6.25E+03	n/a	n/a	n/a	n/a	553	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	1.83	n/a	n/a	n/a	n/a	0.0143	5.013	
	2AN-c4L3	2AN-c4L3	S12R000429	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	84.6	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.23E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	2.05E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.159	n/a	n/a	n/a	n/a	4.26E-05	0.5	
	2AN-c4L3	2AN-c4L3	S12R000429	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	55.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4L3	2AN-c4L3	S12R000429	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-c4S1	2AN-c4S1	S12R000391	% Water by TGA		%WATER	Percent water	%	99.0	n/a	41.0	38.4	39.7	6.37	n/a	0.0100	n/a	
	2AN-c4S1	2AN-c4S1	S12R000391	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	2.40	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-c4S1	2AN-c4S1	S12R000391	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	408	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1	2AN-c4S1	S12R000391	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1	2AN-c4S1	S12R000391	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.23E+04	n/a	n/a	n/a	n/a	80.5	n/a	
	2AN-c4S1	2AN-c4S1	S12R000391	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.87E+04	n/a	n/a	n/a	n/a	230	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	8.83E-03	n/a	n/a	n/a	n/a	6.56E-05	3.13	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.287	n/a	n/a	n/a	n/a	6.18E-05	0.52	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	106.69	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	1.10E-03	n/a	n/a	n/a	n/a	3.75E-05	8.52	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-c4S1a	2AN-c4S1a	S12R000409	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.77E+04	n/a	n/a	n/a	n/a	13.1	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<10.9	n/a	n/a	n/a	n/a	10.9	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	269	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	1.31E+03	n/a	n/a	n/a	n/a	174	n/a	J
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	42.7	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	815	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	145	n/a	n/a	n/a	n/a	21.8	n/a	J

	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.35E+03	n/a	n/a	n/a	n/a	43.6	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	42.8	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	4.86	n/a	n/a	n/a	n/a	4.36	n/a	J
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	1.19E+04	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	29.9	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.44E+05	n/a	n/a	n/a	n/a	87.1	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	51.8	n/a	n/a	n/a	n/a	6.54	n/a	J
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	254	n/a	n/a	n/a	n/a	2.18	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.54	n/a	n/a	n/a	n/a	6.54	n/a	Ua
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.07E+03	n/a	n/a	n/a	n/a	6.54	n/a	

	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	229	n/a	n/a	n/a	n/a	13.1	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	12.2	n/a	n/a	n/a	n/a	8.71	n/a	J
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	83.0	n/a	n/a	n/a	n/a	65.4	n/a	J
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	2.93E+03	n/a	n/a	n/a	n/a	10.9	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<10.9	n/a	n/a	n/a	n/a	10.9	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	<6.54	n/a	n/a	n/a	n/a	6.54	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.72E+04	n/a	n/a	n/a	n/a	4.36	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<10.9	n/a	n/a	n/a	n/a	10.9	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	25.6	n/a	n/a	n/a	n/a	10.9	n/a	J
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<13.1	n/a	n/a	n/a	n/a	13.1	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	92.0	n/a	n/a	n/a	n/a	13.1	n/a	Ja
	2AN-c4S1a	2AN-c4S1a	S12R000409	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	6.13	n/a	n/a	n/a	n/a	4.36	n/a	J
	2AN-c4S1a	2AN-c4S1a	S12R000409	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	230	n/a	n/a	n/a	n/a	0.0322	0.655	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	79.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0834	n/a	n/a	n/a	n/a	8.46E-03	15.3	
	2AN-c4S1a	2AN-c4S1a	S12R000409	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	57.4	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2	2AN-c4S2	S12R000392	% Water by TGA		%WATER	Percent water	%	99.0	n/a	40.8	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-c4S2	2AN-c4S2	S12R000392	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	2.20	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-c4S2	2AN-c4S2	S12R000392	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	408	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-c4S2	2AN-c4S2	S12R000392	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2	2AN-c4S2	S12R000392	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.23E+04	n/a	n/a	n/a	n/a	103	n/a	
	2AN-c4S2	2AN-c4S2	S12R000392	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.83E+04	n/a	n/a	n/a	n/a	295	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	8.67E-03	n/a	n/a	n/a	n/a	7.16E-05	3.20	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.283	n/a	n/a	n/a	n/a	6.70E-05	0.53	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	96.910	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	1.37E-03	n/a	n/a	n/a	n/a	4.00E-05	7.73	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-c4S2a	2AN-c4S2a	S12R000410	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.49E+04	n/a	n/a	n/a	n/a	12.4	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	271	n/a	n/a	n/a	n/a	2.07	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.07	n/a	n/a	n/a	n/a	2.07	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	800	n/a	n/a	n/a	n/a	166	n/a	J
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	42.0	n/a	n/a	n/a	n/a	2.07	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	765	n/a	n/a	n/a	n/a	2.07	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.07	n/a	n/a	n/a	n/a	2.07	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	138	n/a	n/a	n/a	n/a	20.7	n/a	J
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.36E+03	n/a	n/a	n/a	n/a	41.4	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	41.8	n/a	n/a	n/a	n/a	2.07	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.07	n/a	n/a	n/a	n/a	2.07	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.14	n/a	n/a	n/a	n/a	4.14	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	1.15E+04	n/a	n/a	n/a	n/a	2.07	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	30.7	n/a	n/a	n/a	n/a	2.07	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.46E+05	n/a	n/a	n/a	n/a	82.8	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	44.3	n/a	n/a	n/a	n/a	6.21	n/a	J
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	254	n/a	n/a	n/a	n/a	2.07	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.21	n/a	n/a	n/a	n/a	6.21	n/a	Ua
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.08E+03	n/a	n/a	n/a	n/a	6.21	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	218	n/a	n/a	n/a	n/a	12.4	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	12.4	n/a	n/a	n/a	n/a	8.28	n/a	J
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	<62.1	n/a	n/a	n/a	n/a	62.1	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<16.6	n/a	n/a	n/a	n/a	16.6	n/a	U

	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	2.95E+03	n/a	n/a	n/a	n/a	10.4	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	<6.21	n/a	n/a	n/a	n/a	6.21	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.78E+04	n/a	n/a	n/a	n/a	4.14	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	27.0	n/a	n/a	n/a	n/a	10.4	n/a	J
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.07	n/a	n/a	n/a	n/a	2.07	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.07	n/a	n/a	n/a	n/a	2.07	n/a	U
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	103	n/a	n/a	n/a	n/a	12.4	n/a	Ja
	2AN-c4S2a	2AN-c4S2a	S12R000410	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	4.57	n/a	n/a	n/a	n/a	4.14	n/a	J
	2AN-c4S2a	2AN-c4S2a	S12R000410	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	234	n/a	n/a	n/a	n/a	0.0314	0.64	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	77.4	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0852	n/a	n/a	n/a	n/a	8.09E-03	14.6	
	2AN-c4S2a	2AN-c4S2a	S12R000410	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	57.2	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3	2AN-c4S3	S12R000393	% Water by TGA		%WATER	Percent water	%	99.0	n/a	37.2	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-c4S3	2AN-c4S3	S12R000393	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.70	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-c4S3	2AN-c4S3	S12R000393	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	286	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3	2AN-c4S3	S12R000393	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3	2AN-c4S3	S12R000393	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.26E+04	n/a	n/a	n/a	n/a	109	n/a	
	2AN-c4S3	2AN-c4S3	S12R000393	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.89E+04	n/a	n/a	n/a	n/a	311	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	8.43E-03	n/a	n/a	n/a	n/a	8.15E-05	3.38	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.278	n/a	n/a	n/a	n/a	6.47E-05	0.55	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	90.810	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	1.00E-03	n/a	n/a	n/a	n/a	4.32E-05	9.41	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-c4S3a	2AN-c4S3a	S12R000411	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.65E+04	n/a	n/a	n/a	n/a	12.4	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<10.3	n/a	n/a	n/a	n/a	10.3	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	228	n/a	n/a	n/a	n/a	2.06	n/a	

	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.06	n/a	n/a	n/a	n/a	2.06	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	724	n/a	n/a	n/a	n/a	165	n/a	J
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	41.9	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	756	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.06	n/a	n/a	n/a	n/a	2.06	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	137	n/a	n/a	n/a	n/a	20.6	n/a	J
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.33E+03	n/a	n/a	n/a	n/a	41.2	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	39.4	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.06	n/a	n/a	n/a	n/a	2.06	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.12	n/a	n/a	n/a	n/a	4.12	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	1.10E+04	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	30.5	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.42E+05	n/a	n/a	n/a	n/a	82.4	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	46.5	n/a	n/a	n/a	n/a	6.18	n/a	J
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	250	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.18	n/a	n/a	n/a	n/a	6.18	n/a	Ua
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	1.06E+03	n/a	n/a	n/a	n/a	6.18	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	222	n/a	n/a	n/a	n/a	12.4	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	<8.24	n/a	n/a	n/a	n/a	8.24	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	<61.8	n/a	n/a	n/a	n/a	61.8	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<16.5	n/a	n/a	n/a	n/a	16.5	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	2.88E+03	n/a	n/a	n/a	n/a	10.3	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<10.3	n/a	n/a	n/a	n/a	10.3	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	<6.18	n/a	n/a	n/a	n/a	6.18	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.44E+04	n/a	n/a	n/a	n/a	4.12	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<10.3	n/a	n/a	n/a	n/a	10.3	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	31.8	n/a	n/a	n/a	n/a	10.3	n/a	J
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.06	n/a	n/a	n/a	n/a	2.06	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<12.4	n/a	n/a	n/a	n/a	12.4	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.06	n/a	n/a	n/a	n/a	2.06	n/a	U
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	89.3	n/a	n/a	n/a	n/a	12.4	n/a	Ja
	2AN-c4S3a	2AN-c4S3a	S12R000411	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	4.46	n/a	n/a	n/a	n/a	4.12	n/a	J
	2AN-c4S3a	2AN-c4S3a	S12R000411	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	195	n/a	n/a	n/a	n/a	0.0303	0.69	

	2AN-c4S3a	2AN-c4S3a	S12R000411	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	79.6	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0814	n/a	n/a	n/a	n/a	7.89E-03	14.8	
	2AN-c4S3a	2AN-c4S3a	S12R000411	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	58.3	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.81E-03	n/a	n/a	n/a	n/a	8.41E-06	2.48	
	2AN-d4L1	2AN-d4L1	S12R000430	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0550	n/a	n/a	n/a	n/a	1.12E-05	0.43	
	2AN-d4L1	2AN-d4L1	S12R000430	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	108.84	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	1.71E-04	n/a	n/a	n/a	n/a	4.93E-06	7.69	
	2AN-d4L1	2AN-d4L1	S12R000430	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-d4L1	2AN-d4L1	S12R000430	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.60	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	94.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.12E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	358	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	57.8	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	127	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	23.7	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.49E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	4.91	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	49.5	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.58E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	10.5	n/a	n/a	n/a	n/a	7.50	n/a	J
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	414	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.55E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	142	n/a	n/a	n/a	n/a	15.0	n/a	J

	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	11.2	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	23.5	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.00E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	84.1	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	72.2	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U

	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	137	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-d4L1	2AN-d4L1	S12R000430	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.80E+03	n/a	n/a	n/a	n/a	553	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	7.32	n/a	n/a	n/a	n/a	0.0144	2.466	
	2AN-d4L1	2AN-d4L1	S12R000430	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	83.9	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.30E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	8.81E+03	n/a	n/a	n/a	n/a	400	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.162	n/a	n/a	n/a	n/a	4.15E-05	0.5	
	2AN-d4L1	2AN-d4L1	S12R000430	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	57.2	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L1	2AN-d4L1	S12R000430	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-d4L2	2AN-d4L2	S12R000431	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<2.20E-05	1.72E-03	n/a	n/a	n/a	n/a	7.66E-06	2.50	
	2AN-d4L2	2AN-d4L2	S12R000431	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.67E-05	0.0550	n/a	n/a	n/a	n/a	1.09E-05	0.42	
	2AN-d4L2	2AN-d4L2	S12R000431	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	61.610	110.95	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<6.61E-06	1.70E-04	n/a	n/a	n/a	n/a	5.71E-06	7.64	
	2AN-d4L2	2AN-d4L2	S12R000431	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-d4L2	2AN-d4L2	S12R000431	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-d4L2	2AN-d4L2	S12R000431	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.10	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	96.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.11E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	343	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	56.0	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	126	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	24.4	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.56E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	47.7	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.63E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	400	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.48E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	144	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	28.8	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	4.84E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	83.5	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U

	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	69.9	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	163	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-d4L2	2AN-d4L2	S12R000431	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.54E+03	n/a	n/a	n/a	n/a	553	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	97.9	<0.0440	7.51	n/a	n/a	n/a	n/a	0.0147	2.467	
	2AN-d4L2	2AN-d4L2	S12R000431	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	85.3	81.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.33E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	2.26E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	106	<4.11E-05	0.138	n/a	n/a	n/a	n/a	3.64E-05	0.5	
	2AN-d4L2	2AN-d4L2	S12R000431	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	57.8	65.4	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L2	2AN-d4L2	S12R000431	pH of Liquids		PH	pH	unitless	n/a	n/a	13.7	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-d4L3	2AN-d4L3	S12R000432	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	1.89E-03	1.82E-03	1.86E-03	3.77	n/a	1.47E-05	2.96	
	2AN-d4L3	2AN-d4L3	S12R000432	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0588	0.0563	0.0576	4.34	n/a	1.60E-05	0.50	
	2AN-d4L3	2AN-d4L3	S12R000432	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	106.91	96.170	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	1.79E-04	1.62E-04	1.70E-04	9.97	n/a	4.00E-06	9.13	
	2AN-d4L3	2AN-d4L3	S12R000432	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	Q
	2AN-d4L3	2AN-d4L3	S12R000432	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	8.10	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	106	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	2.63	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.12E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U

	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	363	n/a	n/a	n/a	n/a	200	n/a	J

	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	58.9	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	129	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	23.9	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.55E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	4.09	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	50.0	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.61E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	9.61	n/a	n/a	n/a	n/a	7.50	n/a	J
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	421	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.57E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	149	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	20.1	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.09E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	81.7	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	72.3	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	154	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U

	2AN-d4L3	2AN-d4L3	S12R000432	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-d4L3	2AN-d4L3	S12R000432	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.71E+03	n/a	n/a	n/a	n/a	553	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	7.61	7.34	7.48	3.60	n/a	0.0119	2.196	
	2AN-d4L3	2AN-d4L3	S12R000432	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	86.5	87.6	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.45E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	2.43E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.117	0.132	0.124	12.2	n/a	3.17E-05	0.5	
	2AN-d4L3	2AN-d4L3	S12R000432	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	77.3	68.0	n/a	n/a	n/a	n/a	n/a	
	2AN-d4L3	2AN-d4L3	S12R000432	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-d4S1	2AN-d4S1	S12R000394	% Water by TGA		%WATER	Percent water	%	99.0	n/a	39.8	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-d4S1	2AN-d4S1	S12R000394	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.70	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-d4S1	2AN-d4S1	S12R000394	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	426	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1	2AN-d4S1	S12R000394	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1	2AN-d4S1	S12R000394	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.18E+04	n/a	n/a	n/a	n/a	118	n/a	
	2AN-d4S1	2AN-d4S1	S12R000394	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.89E+04	n/a	n/a	n/a	n/a	338	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<7.76E-05	8.39E-03	n/a	n/a	n/a	n/a	8.01E-05	3.16	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	100	<8.30E-05	0.280	n/a	n/a	n/a	n/a	7.83E-05	0.51	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	uCi/g	n/a	101.79	110.42	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.24E-05	1.12E-03	n/a	n/a	n/a	n/a	3.75E-05	8.30	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-d4S1a	2AN-d4S1a	S12R000412	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7429-90-5	Aluminum	ug/g	n/a	<0.0600	2.39E+04	n/a	n/a	n/a	n/a	12.6	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-38-2	Arsenic	ug/g	n/a	<0.0500	<10.5	n/a	n/a	n/a	n/a	10.5	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-39-3	Barium	ug/g	n/a	<0.0100	164	n/a	n/a	n/a	n/a	2.10	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-41-7	Beryllium	ug/g	n/a	<0.0100	<2.10	n/a	n/a	n/a	n/a	2.10	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-69-9	Bismuth	ug/g	n/a	<0.0600	<12.6	n/a	n/a	n/a	n/a	12.6	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-70-2	Calcium	ug/g	n/a	<0.800	702	n/a	n/a	n/a	n/a	168	n/a	J
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-43-9	Cadmium	ug/g	n/a	<0.0100	43.3	n/a	n/a	n/a	n/a	2.10	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-45-1	Cerium	ug/g	96.6	<0.0600	<12.6	n/a	n/a	n/a	n/a	12.6	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-47-3	Chromium	ug/g	n/a	<0.0100	743	n/a	n/a	n/a	n/a	2.10	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-53-1	Europium	ug/g	99.4	<0.0100	<2.10	n/a	n/a	n/a	n/a	2.10	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7439-89-6	Iron	ug/g	n/a	<0.100	170	n/a	n/a	n/a	n/a	21.0	n/a	J
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-09-7	Potassium	ug/g	n/a	<0.200	1.43E+03	n/a	n/a	n/a	n/a	42.0	n/a	

	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7439-91-0	Lanthanum	ug/g	n/a	<0.0100	43.6	n/a	n/a	n/a	n/a	2.10	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7439-93-2	Lithium	ug/g	n/a	<0.0100	<2.10	n/a	n/a	n/a	n/a	2.10	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7439-95-4	Magnesium	ug/g	n/a	<0.0200	<4.20	n/a	n/a	n/a	n/a	4.20	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7439-96-5	Manganese	ug/g	n/a	<0.0100	8.78E+03	n/a	n/a	n/a	n/a	2.10	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7439-98-7	Molybdenum	ug/g	n/a	<0.0100	31.6	n/a	n/a	n/a	n/a	2.10	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-23-5	Sodium	ug/g	n/a	<0.400	1.60E+05	n/a	n/a	n/a	n/a	83.9	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-00-8	Neodymium	ug/g	96.8	<0.0300	46.2	n/a	n/a	n/a	n/a	6.29	n/a	J
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-02-0	Nickel	ug/g	n/a	<0.0100	262	n/a	n/a	n/a	n/a	2.10	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-30-1	Niobium	ug/g	47.4	<0.0300	<6.29	n/a	n/a	n/a	n/a	6.29	n/a	Ua
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7723-14-0	Phosphorus	ug/g	n/a	<0.0300	2.49E+03	n/a	n/a	n/a	n/a	6.29	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7439-92-1	Lead	ug/g	n/a	<0.0600	214	n/a	n/a	n/a	n/a	12.6	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-10-0	Praseodymium	ug/g	97.0	<0.0400	11.6	n/a	n/a	n/a	n/a	8.39	n/a	J
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-17-7	Rubidium	ug/g	90.5	0.326	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-16-6	Rhodium	ug/g	93.5	<0.0800	<16.8	n/a	n/a	n/a	n/a	16.8	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7704-34-9	Sulfur	ug/g	n/a	<0.0500	3.02E+03	n/a	n/a	n/a	n/a	10.5	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-36-0	Antimony	ug/g	n/a	<0.0600	<12.6	n/a	n/a	n/a	n/a	12.6	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7782-49-2	Selenium	ug/g	n/a	<0.0600	<12.6	n/a	n/a	n/a	n/a	12.6	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-19-9	Samarium	ug/g	97.9	<0.0500	<10.5	n/a	n/a	n/a	n/a	10.5	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-31-5	Tin	ug/g	92.1	<0.0300	33.5	n/a	n/a	n/a	n/a	6.29	n/a	J
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-24-6	Strontium	ug/g	n/a	<0.0200	1.03E+04	n/a	n/a	n/a	n/a	4.20	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	13494-80-9	Tellurium	ug/g	90.9	<0.0500	<10.5	n/a	n/a	n/a	n/a	10.5	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-29-1	Thorium	ug/g	95.5	<0.0500	18.2	n/a	n/a	n/a	n/a	10.5	n/a	J
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-32-6	Titanium	ug/g	n/a	<0.0100	<2.10	n/a	n/a	n/a	n/a	2.10	n/a	U

	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-28-0	Thallium	ug/g	93.9	<0.0600	<12.6	n/a	n/a	n/a	n/a	12.6	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-62-2	Vanadium	ug/g	n/a	<0.0100	<2.10	n/a	n/a	n/a	n/a	2.10	n/a	U
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-33-7	Tungsten	ug/g	27.9	<0.0600	99.6	n/a	n/a	n/a	n/a	12.6	n/a	Ja
	2AN-d4S1a	2AN-d4S1a	S12R000412	ICP-AES	A	7440-65-5	Yttrium	ug/g	94.6	<0.0200	4.76	n/a	n/a	n/a	n/a	4.20	n/a	J
	2AN-d4S1a	2AN-d4S1a	S12R000412	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	100	<1.48E-04	266	n/a	n/a	n/a	n/a	0.0311	0.598	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	80.4	79.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	101	<8.71E-03	0.0889	n/a	n/a	n/a	n/a	8.13E-03	14.2	
	2AN-d4S1a	2AN-d4S1a	S12R000412	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	57.9	57.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S2	2AN-d4S2	S12R000395	% Water by TGA		%WATER	Percent water	%	99.1	n/a	38.3	38.6	38.5	0.728	n/a	0.0100	n/a	
	2AN-d4S2	2AN-d4S2	S12R000395	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.70	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-d4S2	2AN-d4S2	S12R000395	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	426	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S2	2AN-d4S2	S12R000395	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-d4S2	2AN-d4S2	S12R000395	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.23E+04	n/a	n/a	n/a	n/a	125	n/a	
	2AN-d4S2	2AN-d4S2	S12R000395	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.94E+04	n/a	n/a	n/a	n/a	356	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	8.11E-03	8.87E-03	8.49E-03	8.95	n/a	5.46E-05	3.41	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.271	0.279	0.275	2.91	n/a	7.19E-05	0.55	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	103.66	103.53	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	1.26E-03	1.28E-03	1.27E-03	1.57	n/a	2.42E-05	8.45	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	0.100	0.100	0.0	n/a	n/a	n/a	Q
	2AN-d4S2a	2AN-d4S2a	S12R000413	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	2.38E+04	2.38E+04	2.38E+04	0.0470	202	13.4	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	164	163	163	0.739	105	2.23	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	719	729	724	1.40	106	179	n/a	J
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	45.8	45.9	45.9	0.317	105	2.23	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	747	741	744	0.770	108	2.23	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	172	174	173	0.984	104	22.3	n/a	J
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	9.02E+03	8.85E+03	8.93E+03	1.87	129	2.23	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	31.1	31.6	31.4	1.74	102	2.23	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.65E+05	1.65E+05	1.65E+05	0.0365	305	89.3	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	273	278	275	1.98	105	2.23	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.75E+03	1.56E+03	1.66E+03	11.4	110	6.70	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	228	217	223	4.95	105	13.4	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.17E+03	3.21E+03	3.19E+03	1.54	104	11.2	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	1.01E+04	1.01E+04	1.01E+04	0.233	152	4.46	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	253	250	251	1.25	n/a	0.0313	0.616	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	86.2	85.6	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.109	0.101	0.105	8.47	n/a	1.42E-03	3.8	
	2AN-d4S2a	2AN-d4S2a	S12R000413	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	60.4	62.1	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3	2AN-d4S3	S12R000396	% Water by TGA		%WATER	Percent water	%	99.1	n/a	35.1	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-d4S3	2AN-d4S3	S12R000396	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.90	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-d4S3	2AN-d4S3	S12R000396	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	426	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3	2AN-d4S3	S12R000396	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3	2AN-d4S3	S12R000396	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.16E+04	n/a	n/a	n/a	n/a	105	n/a	
	2AN-d4S3	2AN-d4S3	S12R000396	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.87E+04	n/a	n/a	n/a	n/a	300	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	9.20E-03	n/a	n/a	n/a	n/a	6.81E-05	3.23	

	2AN-d4S3a	2AN-d4S3a	S12R000414	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.293	n/a	n/a	n/a	n/a	8.02E-05	0.54	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	99.450	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	1.10E-03	n/a	n/a	n/a	n/a	2.51E-05	9.20	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-d4S3a	2AN-d4S3a	S12R000414	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	2.54E+04	n/a	n/a	n/a	n/a	13.3	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	166	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	741	n/a	n/a	n/a	n/a	177	n/a	J
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	47.6	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	777	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	182	n/a	n/a	n/a	n/a	22.1	n/a	J
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	9.33E+03	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	31.3	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.70E+05	n/a	n/a	n/a	n/a	88.4	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	282	n/a	n/a	n/a	n/a	2.21	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.66E+03	n/a	n/a	n/a	n/a	6.63	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	222	n/a	n/a	n/a	n/a	13.3	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.28E+03	n/a	n/a	n/a	n/a	11.1	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	1.00E+04	n/a	n/a	n/a	n/a	4.42	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	252	n/a	n/a	n/a	n/a	0.0309	0.612	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	86.1	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.112	n/a	n/a	n/a	n/a	1.38E-03	3.7	
	2AN-d4S3a	2AN-d4S3a	S12R000414	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	61.4	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	1.70E-03	n/a	n/a	n/a	n/a	1.20E-05	3.05	
	2AN-e4L1	2AN-e4L1	S12R000433	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0523	n/a	n/a	n/a	n/a	1.42E-05	0.52	
	2AN-e4L1	2AN-e4L1	S12R000433	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	110.27	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	1.39E-04	n/a	n/a	n/a	n/a	3.89E-06	10.21	
	2AN-e4L1	2AN-e4L1	S12R000433	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-e4L1	2AN-e4L1	S12R000433	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.80	n/a	n/a	n/a	n/a	0.100	n/a	

	2AN-e4L1	2AN-e4L1	S12R000433	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	110	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.00E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U

	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	376	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	62.5	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	132	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	28.0	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.66E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	2.89	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	53.2	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.63E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	11.5	n/a	n/a	n/a	n/a	7.50	n/a	J
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	447	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.67E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	157	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	23.5	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.36E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	86.8	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	80.9	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U

	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	164	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-e4L1	2AN-e4L1	S12R000433	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	4.96E+03	n/a	n/a	n/a	n/a	553	n/a	J
	2AN-e4L1	2AN-e4L1	S12R000433	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	8.92	n/a	n/a	n/a	n/a	0.0122	2.05	
	2AN-e4L1	2AN-e4L1	S12R000433	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	84.5	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.18E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	2.47E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.147	n/a	n/a	n/a	n/a	3.80E-05	0.5	
	2AN-e4L1	2AN-e4L1	S12R000433	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	64.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L1	2AN-e4L1	S12R000433	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-e4L2	2AN-e4L2	S12R000434	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	1.68E-03	n/a	n/a	n/a	n/a	1.42E-05	3.24	
	2AN-e4L2	2AN-e4L2	S12R000434	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0516	n/a	n/a	n/a	n/a	1.82E-05	0.55	
	2AN-e4L2	2AN-e4L2	S12R000434	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	98.120	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	1.84E-04	n/a	n/a	n/a	n/a	4.28E-06	9.32	
	2AN-e4L2	2AN-e4L2	S12R000434	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-e4L2	2AN-e4L2	S12R000434	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	8.40	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	152	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	9.45E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	382	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	62.7	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	125	n/a	n/a	n/a	n/a	2.50	n/a	

	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	26.2	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.55E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	4.53	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	54.0	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.49E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	450	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.66E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	163	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	23.1	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.37E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	82.4	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	80.3	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U

	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	160	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-e4L2	2AN-e4L2	S12R000434	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	107	<9.22	5.17E+03	n/a	n/a	n/a	n/a	553	n/a	J
	2AN-e4L2	2AN-e4L2	S12R000434	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-e4L2	2AN-e4L2	S12R000434	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	8.64	n/a	n/a	n/a	n/a	0.0118	2.05	
	2AN-e4L2	2AN-e4L2	S12R000434	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	87.2	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.18E+04	n/a	n/a	n/a	n/a	140	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	110	<20.0	2.45E+04	n/a	n/a	n/a	n/a	400	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.153	n/a	n/a	n/a	n/a	4.02E-05	0.5	
	2AN-e4L2	2AN-e4L2	S12R000434	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	61.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L2	2AN-e4L2	S12R000434	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-e4L3	2AN-e4L3	S12R000435	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	1.79E-03	n/a	n/a	n/a	n/a	1.41E-05	3.05	
	2AN-e4L3	2AN-e4L3	S12R000435	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0541	n/a	n/a	n/a	n/a	1.56E-05	0.52	
	2AN-e4L3	2AN-e4L3	S12R000435	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	105.87	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	1.59E-04	n/a	n/a	n/a	n/a	4.01E-06	9.71	
	2AN-e4L3	2AN-e4L3	S12R000435	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-e4L3	2AN-e4L3	S12R000435	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.90	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	112	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	9.54E+03	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	387	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	63.1	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	126	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	24.6	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.57E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	2.73	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	54.9	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.52E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U

	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	456	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.69E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	166	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	25.5	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.46E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	86.8	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	82.6	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	153	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-e4L3	2AN-e4L3	S12R000435	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.0	<9.22	4.90E+03	4.82E+03	4.86E+03	1.68	98.0	277	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	8.62	n/a	n/a	n/a	n/a	0.0118	2.057	
	2AN-e4L3	2AN-e4L3	S12R000435	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	86.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.22E+04	1.22E+04	1.22E+04	0.0	104	70.0	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.7	<20.0	2.52E+04	2.51E+04	2.52E+04	0.398	95.2	200	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.135	n/a	n/a	n/a	n/a	3.41E-05	0.4	
	2AN-e4L3	2AN-e4L3	S12R000435	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	71.6	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4L3	2AN-e4L3	S12R000435	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-e4S1	2AN-e4S1	S12R000397	% Water by TGA		%WATER	Percent water	%	99.1	n/a	35.0	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-e4S1	2AN-e4S1	S12R000397	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.80	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-e4S1	2AN-e4S1	S12R000397	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	186	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-e4S1	2AN-e4S1	S12R000397	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1	2AN-e4S1	S12R000397	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	99.6	<7.00	1.63E+04	n/a	n/a	n/a	n/a	87.8	n/a	
	2AN-e4S1	2AN-e4S1	S12R000397	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	97.7	<20.0	1.90E+04	n/a	n/a	n/a	n/a	251	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	4.79E-03	n/a	n/a	n/a	n/a	6.85E-05	4.35	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.155	n/a	n/a	n/a	n/a	7.03E-05	0.72	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	98.330	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	5.66E-04	n/a	n/a	n/a	n/a	2.32E-05	12.40	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-e4S1a	2AN-e4S1a	S12R000415	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	1.67E+04	n/a	n/a	n/a	n/a	12.4	n/a	

	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	67.1	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	444	n/a	n/a	n/a	n/a	165	n/a	J
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	43.4	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	370	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	76.3	n/a	n/a	n/a	n/a	20.6	n/a	J
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	3.87E+03	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	31.8	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.81E+05	n/a	n/a	n/a	n/a	82.6	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	277	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.38E+03	n/a	n/a	n/a	n/a	6.19	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	158	n/a	n/a	n/a	n/a	12.4	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.26E+03	n/a	n/a	n/a	n/a	10.3	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	4.09E+03	n/a	n/a	n/a	n/a	4.13	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	105	n/a	n/a	n/a	n/a	0.0286	0.914	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	86.9	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.104	n/a	n/a	n/a	n/a	1.28E-03	3.7	
	2AN-e4S1a	2AN-e4S1a	S12R000415	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	61.9	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2	2AN-e4S2	S12R000398	% Water by TGA		%WATER	Percent water	%	99.1	n/a	41.6	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-e4S2	2AN-e4S2	S12R000398	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	2.00	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-e4S2	2AN-e4S2	S12R000398	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	226	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2	2AN-e4S2	S12R000398	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2	2AN-e4S2	S12R000398	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	102	<7.00	1.71E+04	n/a	n/a	n/a	n/a	175	n/a	

	2AN-e4S2	2AN-e4S2	S12R000398	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.9	<20.0	1.94E+04	n/a	n/a	n/a	n/a	499	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	5.21E-03	n/a	n/a	n/a	n/a	8.02E-05	4.09	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.170	n/a	n/a	n/a	n/a	8.14E-05	0.67	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	103.20	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	6.00E-04	n/a	n/a	n/a	n/a	2.22E-05	11.78	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-e4S2a	2AN-e4S2a	S12R000416	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	1.84E+04	n/a	n/a	n/a	n/a	12.3	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	85.1	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	510	n/a	n/a	n/a	n/a	164	n/a	J
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	45.2	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	431	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	89.9	n/a	n/a	n/a	n/a	20.6	n/a	J
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	4.60E+03	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	33.6	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.81E+05	n/a	n/a	n/a	n/a	82.2	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	289	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.35E+03	n/a	n/a	n/a	n/a	6.17	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	162	n/a	n/a	n/a	n/a	12.3	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.43E+03	n/a	n/a	n/a	n/a	10.3	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	5.12E+03	n/a	n/a	n/a	n/a	4.11	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	131	n/a	n/a	n/a	n/a	0.0287	0.818	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.106	n/a	n/a	n/a	n/a	6.72E-03	19.5	
	2AN-e4S2a	2AN-e4S2a	S12R000416	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	62.2	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3	2AN-e4S3	S12R000399	% Water by TGA		%WATER	Percent water	%	99.1	n/a	42.2	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-e4S3	2AN-e4S3	S12R000399	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.90	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-e4S3	2AN-e4S3	S12R000399	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	206	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3	2AN-e4S3	S12R000399	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3	2AN-e4S3	S12R000399	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	102	<7.00	1.50E+04	n/a	n/a	n/a	n/a	172	n/a	
	2AN-e4S3	2AN-e4S3	S12R000399	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.9	<20.0	1.98E+04	n/a	n/a	n/a	n/a	493	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	5.29E-03	n/a	n/a	n/a	n/a	5.57E-05	4.03	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.166	n/a	n/a	n/a	n/a	7.32E-05	0.68	

	2AN-e4S3a	2AN-e4S3a	S12R000417	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	107.53	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	6.30E-04	n/a	n/a	n/a	n/a	2.20E-05	11.44	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-e4S3a	2AN-e4S3a	S12R000417	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	1.80E+04	n/a	n/a	n/a	n/a	12.8	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	82.6	n/a	n/a	n/a	n/a	2.13	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	494	n/a	n/a	n/a	n/a	171	n/a	J
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	44.6	n/a	n/a	n/a	n/a	2.13	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	416	n/a	n/a	n/a	n/a	2.13	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	85.6	n/a	n/a	n/a	n/a	21.3	n/a	J
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	4.46E+03	n/a	n/a	n/a	n/a	2.13	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	33.0	n/a	n/a	n/a	n/a	2.13	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.79E+05	n/a	n/a	n/a	n/a	85.4	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	285	n/a	n/a	n/a	n/a	2.13	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.20E+03	n/a	n/a	n/a	n/a	6.40	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	165	n/a	n/a	n/a	n/a	12.8	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.37E+03	n/a	n/a	n/a	n/a	10.7	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	4.91E+03	n/a	n/a	n/a	n/a	4.27	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	126	n/a	n/a	n/a	n/a	0.0293	0.843	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	87.3	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.108	n/a	n/a	n/a	n/a	1.31E-03	3.7	
	2AN-e4S3a	2AN-e4S3a	S12R000417	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	62.3	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	1.90E-03	n/a	n/a	n/a	n/a	1.49E-05	2.91	
	2AN-f4L1	2AN-f4L1	S12R000436	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0568	n/a	n/a	n/a	n/a	1.32E-05	0.50	
	2AN-f4L1	2AN-f4L1	S12R000436	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	108.46	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	1.72E-04	n/a	n/a	n/a	n/a	3.90E-06	9.19	
	2AN-f4L1	2AN-f4L1	S12R000436	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-f4L1	2AN-f4L1	S12R000436	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.90	n/a	n/a	n/a	n/a	0.100	n/a	

	2AN-f4L1	2AN-f4L1	S12R000436	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	100	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.07E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	349	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	55.9	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	124	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	23.2	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.31E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7439-91-0	Lanthanum	ug/mL	103	<1.00E-03	6.02	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	3.55	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	47.9	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.40E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	402	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.51E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	144	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	21.1	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	4.86E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	82.3	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	75.0	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U

	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	139	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-f4L1	2AN-f4L1	S12R000436	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.0	<9.22	5.97E+03	n/a	n/a	n/a	n/a	277	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	4.87	n/a	n/a	n/a	n/a	0.0119	2.754	
	2AN-f4L1	2AN-f4L1	S12R000436	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.41E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.7	<20.0	2.37E+04	n/a	n/a	n/a	n/a	200	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.146	n/a	n/a	n/a	n/a	3.91E-05	0.5	
	2AN-f4L1	2AN-f4L1	S12R000436	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	62.6	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L1	2AN-f4L1	S12R000436	pH of Liquids		PH	pH	unitless	n/a	n/a	13.7	13.7	13.7	0.0732	n/a	0.0100	n/a	E
	2AN-f4L2	2AN-f4L2	S12R000437	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	1.92E-03	n/a	n/a	n/a	n/a	9.76E-06	2.80	
	2AN-f4L2	2AN-f4L2	S12R000437	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0578	n/a	n/a	n/a	n/a	1.19E-05	0.48	
	2AN-f4L2	2AN-f4L2	S12R000437	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	114.88	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	1.82E-04	n/a	n/a	n/a	n/a	3.64E-06	8.63	
	2AN-f4L2	2AN-f4L2	S12R000437	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-f4L2	2AN-f4L2	S12R000437	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	6.50	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	90.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.17E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	343	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	58.5	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	136	n/a	n/a	n/a	n/a	2.50	n/a	

	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	26.2	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.46E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	4.90	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	50.2	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.58E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	417	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.57E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	148	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	29.7	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.05E+03	n/a	n/a	n/a	n/a	12.5	n/a	

	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	84.9	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	78.7	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	147	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-f4L2	2AN-f4L2	S12R000437	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.0	<9.22	5.52E+03	n/a	n/a	n/a	n/a	277	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-f4L2	2AN-f4L2	S12R000437	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	5.15	n/a	n/a	n/a	n/a	0.0119	2.678	
	2AN-f4L2	2AN-f4L2	S12R000437	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.36E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.7	<20.0	2.31E+04	n/a	n/a	n/a	n/a	200	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.131	n/a	n/a	n/a	n/a	3.57E-05	0.5	
	2AN-f4L2	2AN-f4L2	S12R000437	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	69.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L2	2AN-f4L2	S12R000437	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-f4L3	2AN-f4L3	S12R000438	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	1.80E-03	n/a	n/a	n/a	n/a	9.96E-06	2.92	
	2AN-f4L3	2AN-f4L3	S12R000438	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0573	n/a	n/a	n/a	n/a	1.44E-05	0.49	
	2AN-f4L3	2AN-f4L3	S12R000438	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	111.72	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	2.00E-04	n/a	n/a	n/a	n/a	3.72E-06	8.33	
	2AN-f4L3	2AN-f4L3	S12R000438	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-f4L3	2AN-f4L3	S12R000438	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.20	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	99.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.16E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	337	n/a	n/a	n/a	n/a	200	n/a	J
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	55.7	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	134	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	22.3	n/a	n/a	n/a	n/a	5.00	n/a	J
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	<25.0	n/a	n/a	n/a	n/a	25.0	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.49E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	3.29	n/a	n/a	n/a	n/a	2.50	n/a	J
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	48.0	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.58E+05	n/a	n/a	n/a	n/a	100	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U

	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	400	n/a	n/a	n/a	n/a	2.50	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.50E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	146	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	27.5	n/a	n/a	n/a	n/a	10.0	n/a	J
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	4.84E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	87.5	n/a	n/a	n/a	n/a	12.5	n/a	J
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	74.4	n/a	n/a	n/a	n/a	5.00	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	51.3	n/a	n/a	n/a	n/a	50.0	n/a	J
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	143	n/a	n/a	n/a	n/a	15.0	n/a	J
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	2AN-f4L3	2AN-f4L3	S12R000438	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.0	<9.22	5.29E+03	n/a	n/a	n/a	n/a	277	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	5.17	n/a	n/a	n/a	n/a	0.0122	2.712	
	2AN-f4L3	2AN-f4L3	S12R000438	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	83.3	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.50E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.7	<20.0	2.52E+04	n/a	n/a	n/a	n/a	200	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.128	n/a	n/a	n/a	n/a	3.47E-05	0.5	
	2AN-f4L3	2AN-f4L3	S12R000438	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	70.9	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4L3	2AN-f4L3	S12R000438	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	2AN-f4S1	2AN-f4S1	S12R000400	% Water by TGA		%WATER	Percent water	%	99.1	n/a	41.2	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-f4S1	2AN-f4S1	S12R000400	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.60	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-f4S1	2AN-f4S1	S12R000400	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	428	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-f4S1	2AN-f4S1	S12R000400	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1	2AN-f4S1	S12R000400	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	102	<7.00	1.19E+04	9.83E+03	1.09E+04	19.1	122	307	n/a	
	2AN-f4S1	2AN-f4S1	S12R000400	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.9	<20.0	1.78E+04	1.84E+04	1.81E+04	3.31	76.3	877	n/a	

	2AN-f4S1a	2AN-f4S1a	S12R000418	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	9.11E-03	n/a	n/a	n/a	n/a	7.18E-05	2.98	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.296	n/a	n/a	n/a	n/a	6.64E-05	0.49	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	108.98	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	1.14E-03	n/a	n/a	n/a	n/a	4.46E-05	8.25	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-f4S1a	2AN-f4S1a	S12R000418	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	2.41E+04	n/a	n/a	n/a	n/a	12.3	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	167	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	875	n/a	n/a	n/a	n/a	164	n/a	J
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	45.8	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	780	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	185	n/a	n/a	n/a	n/a	20.6	n/a	J
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	9.29E+03	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	31.6	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.63E+05	n/a	n/a	n/a	n/a	82.2	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	273	n/a	n/a	n/a	n/a	2.06	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.80E+03	n/a	n/a	n/a	n/a	6.17	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	221	n/a	n/a	n/a	n/a	12.3	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.18E+03	n/a	n/a	n/a	n/a	10.3	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	1.05E+04	n/a	n/a	n/a	n/a	4.11	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	292	n/a	n/a	n/a	n/a	0.0284	0.545	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	86.7	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.108	n/a	n/a	n/a	n/a	1.29E-03	3.7	
	2AN-f4S1a	2AN-f4S1a	S12R000418	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	61.2	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2	2AN-f4S2	S12R000401	% Water by TGA		%WATER	Percent water	%	99.1	n/a	41.8	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-f4S2	2AN-f4S2	S12R000401	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	2.00	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-f4S2	2AN-f4S2	S12R000401	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	466	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2	2AN-f4S2	S12R000401	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2	2AN-f4S2	S12R000401	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	102	<7.00	1.26E+04	n/a	n/a	n/a	n/a	199	n/a	

	2AN-f4S2	2AN-f4S2	S12R000401	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.9	<20.0	1.86E+04	n/a	n/a	n/a	n/a	568	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	8.26E-03	n/a	n/a	n/a	n/a	7.72E-05	3.25	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.280	n/a	n/a	n/a	n/a	9.55E-05	0.52	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	104.74	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	1.08E-03	n/a	n/a	n/a	n/a	2.17E-05	8.67	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-f4S2a	2AN-f4S2a	S12R000419	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	2.29E+04	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	159	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	797	n/a	n/a	n/a	n/a	167	n/a	J
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	45.5	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	739	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	177	n/a	n/a	n/a	n/a	20.8	n/a	J
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	8.87E+03	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	31.8	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.61E+05	n/a	n/a	n/a	n/a	83.3	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	273	n/a	n/a	n/a	n/a	2.08	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.38E+03	n/a	n/a	n/a	n/a	6.25	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	221	n/a	n/a	n/a	n/a	12.5	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.18E+03	n/a	n/a	n/a	n/a	10.4	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	9.91E+03	n/a	n/a	n/a	n/a	4.16	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	276	n/a	n/a	n/a	n/a	0.0292	0.569	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	85.3	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.103	n/a	n/a	n/a	n/a	1.30E-03	3.8	
	2AN-f4S2a	2AN-f4S2a	S12R000419	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	61.5	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3	2AN-f4S3	S12R000402	% Water by TGA		%WATER	Percent water	%	99.1	n/a	43.0	n/a	n/a	n/a	n/a	0.0100	n/a	
	2AN-f4S3	2AN-f4S3	S12R000402	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	1.80	n/a	n/a	n/a	n/a	0.100	n/a	
	2AN-f4S3	2AN-f4S3	S12R000402	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	450	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3	2AN-f4S3	S12R000402	Particle Size Analysis		PARTCLESIZE	Particle Size Analysis	unitless	n/a	n/a	Not Performed	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3	2AN-f4S3	S12R000402	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	102	<7.00	1.24E+04	n/a	n/a	n/a	n/a	236	n/a	
	2AN-f4S3	2AN-f4S3	S12R000402	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.9	<20.0	1.81E+04	n/a	n/a	n/a	n/a	673	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<6.40E-05	8.86E-03	n/a	n/a	n/a	n/a	8.30E-05	3.33	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	93.4	1.02E-04	0.282	n/a	n/a	n/a	n/a	6.99E-05	0.55	

	2AN-f4S3a	2AN-f4S3a	S12R000420	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	95.590	95.670	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.36E-05	1.05E-03	n/a	n/a	n/a	n/a	4.55E-05	9.45	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Americium Separation	A		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Americium Separation	A		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Americium Separation	A		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	2AN-f4S3a	2AN-f4S3a	S12R000420	Americium Separation	A		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7429-90-5	Aluminum	ug/g	103	<0.0600	2.27E+04	n/a	n/a	n/a	n/a	12.7	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7440-39-3	Barium	ug/g	102	<0.0100	159	n/a	n/a	n/a	n/a	2.12	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7440-70-2	Calcium	ug/g	102	<0.800	815	n/a	n/a	n/a	n/a	170	n/a	J
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7440-43-9	Cadmium	ug/g	100	<0.0100	44.9	n/a	n/a	n/a	n/a	2.12	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7440-47-3	Chromium	ug/g	101	<0.0100	737	n/a	n/a	n/a	n/a	2.12	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7439-89-6	Iron	ug/g	100	<0.100	176	n/a	n/a	n/a	n/a	21.2	n/a	J
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7439-96-5	Manganese	ug/g	102	<0.0100	8.83E+03	n/a	n/a	n/a	n/a	2.12	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7439-98-7	Molybdenum	ug/g	101	<0.0100	30.5	n/a	n/a	n/a	n/a	2.12	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7440-23-5	Sodium	ug/g	105	<0.400	1.61E+05	n/a	n/a	n/a	n/a	84.9	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7440-02-0	Nickel	ug/g	101	<0.0100	297	n/a	n/a	n/a	n/a	2.12	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7723-14-0	Phosphorus	ug/g	97.9	<0.0300	1.67E+03	n/a	n/a	n/a	n/a	6.36	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7439-92-1	Lead	ug/g	99.3	<0.0600	218	n/a	n/a	n/a	n/a	12.7	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7704-34-9	Sulfur	ug/g	98.3	<0.0500	3.14E+03	n/a	n/a	n/a	n/a	10.6	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	ICP-AES	A	7440-24-6	Strontium	ug/g	101	<0.0200	1.01E+04	n/a	n/a	n/a	n/a	4.24	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	STRONTIUM-90 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.7	1.70E-04	282	n/a	n/a	n/a	n/a	0.0301	0.572	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	87.8	84.0	n/a	n/a	n/a	n/a	n/a	n/a	
	2AN-f4S3a	2AN-f4S3a	S12R000420	TC-99 SEPARATION	A		RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	

	2AN-f4S3a	2AN-f4S3a	S12R000420	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	105	<6.04E-06	0.106	n/a	n/a	n/a	n/a	1.30E-03	3.7	
	2AN-f4S3a	2AN-f4S3a	S12R000420	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	63.5	62.5	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1	AN-102BL1	S11R000423	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1	AN-102BL1	S12R000469	Centrifuge Liquid / hotcell			Centrifuge	None	n/a	n/a	2.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1	AN-102BL1	S12R000469	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1	AN-102BL1	S12R000469	Transfer of Samples between Databases			MultiLIMS Sample Number	None	n/a	n/a	S11R000423	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1	AN-102BL1	S12R000469	Transfer of Samples between Databases			Jar Number	None	n/a	n/a	S11R000423	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<3.73E-05	3.10E-03	n/a	n/a	n/a	n/a	2.26E-05	3.55	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.56E-05	0.106	n/a	n/a	n/a	n/a	2.97E-05	0.57	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	uCi/mL	n/a	102.01	108.80	n/a	n/a	n/a	n/a	2.4400E-05	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.12E-05	5.19E-04	n/a	n/a	n/a	n/a	1.12E-05	8.94	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	

	AN-102BL1b1	AN-102BL1b1	S11R000600	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Americium Separation			Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102BL1b1	AN-102BL1b1	S11R000600	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	13.9	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	110	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-22-4	Silver	ug/mL	98.5	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<0.0300	1.51E+04	n/a	n/a	n/a	n/a	120	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-38-2	Arsenic	ug/mL	102	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-42-8	Boron	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-39-3	Barium	ug/mL	102	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-41-7	Beryllium	ug/mL	96.9	<1.00E-03	<4.00	n/a	n/a	n/a	n/a	4.00	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-69-9	Bismuth	ug/mL	102	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-70-2	Calcium	ug/mL	102	<0.0500	487	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-45-1	Cerium	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-48-4	Cobalt	ug/mL	99.5	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-47-3	Chromium	ug/mL	99.5	<5.00E-03	247	n/a	n/a	n/a	n/a	20.0	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	24.2	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-53-1	Europium	ug/mL	98.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7439-89-6	Iron	ug/mL	99.3	<5.00E-03	26.5	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-09-7	Potassium	ug/mL	94.4	<0.500	2.25E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	J
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7439-91-0	Lanthanum	ug/mL	99.3	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7439-93-2	Lithium	ug/mL	105	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7439-96-5	Manganese	ug/mL	98.8	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7439-98-7	Molybdenum	ug/mL	104	<0.0200	81.4	n/a	n/a	n/a	n/a	80.0	n/a	J
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-23-5	Sodium	ug/mL	104	<0.100	2.45E+05	n/a	n/a	n/a	n/a	400	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-02-0	Nickel	ug/mL	99.1	<0.0200	413	n/a	n/a	n/a	n/a	80.0	n/a	J
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.67E+03	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7439-92-1	Lead	ug/mL	103	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-05-3	Palladium	ug/mL	97.0	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-10-0	Praseodymium	ug/mL	102	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-17-7	Rubidium	ug/mL	102	<1.00	<4.00E+03	n/a	n/a	n/a	n/a	4.00E+03	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-16-6	Rhodium	ug/mL	98.6	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-18-8	Ruthenium	ug/mL	98.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	5.22E+03	n/a	n/a	n/a	n/a	400	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U

	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7782-49-2	Selenium	ug/mL	101	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-21-3	Silicon	ug/mL	93.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-19-9	Samarium	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-25-7	Tantalum	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		13494-80-9	Tellurium	ug/mL	98.9	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-29-1	Thorium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-32-6	Titanium	ug/mL	104	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-28-0	Thallium	ug/mL	107	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-61-1	Uranium	ug/mL	103	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-65-5	Yttrium	ug/mL	99.4	<2.00E-03	<8.00	n/a	n/a	n/a	n/a	8.00	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-66-6	Zinc	ug/mL	97.8	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	ICP-AES		7440-67-7	Zirconium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102BL1b1	AN-102BL1b1	S11R000600	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.8	<9.22	5.97E+03	n/a	n/a	n/a	n/a	553	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.7	<7.93E-03	53.9	n/a	n/a	n/a	n/a	0.0144	0.855	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.1	87.6	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	97.2	<20.0	2.58E+04	n/a	n/a	n/a	n/a	400	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	97.9	<7.00	1.44E+04	n/a	n/a	n/a	n/a	140	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	90.7	<7.52E-05	0.193	n/a	n/a	n/a	n/a	9.93E-05	0.5	
	AN-102BL1b1	AN-102BL1b1	S11R000600	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	66.3	49.2	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b1	AN-102BL1b1	S11R000600	pH of Liquids		PH	pH	unitless	n/a	n/a	>13	n/a	n/a	n/a	n/a	0.0100	n/a	E
	AN-102BL1b2	AN-102BL1b2	S12R000157	Am241,Cm243 by TRU-Spec Resin	E	CM-243/244	Curium-243/244	uCi/mL	n/a	<5.49E-05	3.64E-03	n/a	n/a	n/a	n/a	5.45E-05	4.81	
	AN-102BL1b2	AN-102BL1b2	S12R000157	Am241,Cm243 by TRU-Spec Resin	E	14596-10-2	Americium-241	uCi/mL	98.5	8.02E-05	0.103	n/a	n/a	n/a	n/a	5.14E-05	0.84	
	AN-102BL1b2	AN-102BL1b2	S12R000157	Am241,Cm243 by TRU-Spec Resin	E	14993-75-0T	Americium-243T	uCi/mL	n/a	102.65	105.05	n/a	n/a	n/a	n/a	7.1000E-05	n/a	
	AN-102BL1b2	AN-102BL1b2	S12R000157	Am241,Cm243 by TRU-Spec Resin	E	15510-73-3	Curium-242	uCi/mL	n/a	<2.02E-05	1.27E-03	n/a	n/a	n/a	n/a	5.95E-05	13.28	
	AN-102BL1b2	AN-102BL1b2	S12R000157	Americium Separation	E		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b2	AN-102BL1b2	S12R000157	Americium Separation	E		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b2	AN-102BL1b2	S12R000157	Americium Separation	E		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102BL1b2	AN-102BL1b2	S12R000157	Americium Separation	E		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1b2	AN-102BL1b2	S12R000157	Americium Separation	E		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<7.38E-06	3.37E-03	3.36E-03	3.36E-03	0.297	n/a	1.42E-05	2.69	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	95.6	3.15E-05	0.103	0.102	0.102	0.976	n/a	1.38E-05	0.46	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	85.520	89.510	99.230	n/a	n/a	n/a	1.8600E-05	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<1.68E-05	9.70E-04	1.07E-03	1.02E-03	9.80	n/a	2.80E-05	7.69	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Americium Separation			Tracer Book No.		n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	

	AN-102BL1c1	AN-102BL1c1	S11R000630	Americium Separation			Tracer Volume	mL	n/a	0.500	0.500	0.500	0.500	0.0	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Americium Separation			Sample Volume	mL	n/a	0.200	0.200	0.200	0.200	0.0	n/a	n/a	n/a	Q
	AN-102BL1c1	AN-102BL1c1	S11R000630	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	23.6	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	380	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-22-4	Silver	ug/mL	96.5	<5.00E-03	<50.0	<50.0	n/a	n/a	103	50.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7429-90-5	Aluminum	ug/mL	95.4	<0.0300	1.34E+04	1.36E+04	1.35E+04	1.24	95.2	300	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-38-2	Arsenic	ug/mL	103	<0.0500	<500	<500	n/a	n/a	99.7	500	n/a	U

	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-42-8	Boron	ug/mL	100	<0.0300	<300	<300	n/a	n/a	100	300	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-39-3	Barium	ug/mL	101	<3.00E-03	<30.0	<30.0	n/a	n/a	101	30.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-41-7	Beryllium	ug/mL	97.1	<1.00E-03	<10.0	<10.0	n/a	n/a	96.3	10.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-69-9	Bismuth	ug/mL	105	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	105	1000	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-70-2	Calcium	ug/mL	96.8	<0.0500	<500	<500	n/a	n/a	102	500	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-43-9	Cadmium	ug/mL	101	<5.00E-03	87.0	104	95.3	17.5	100	50.0	n/a	J
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-45-1	Cerium	ug/mL	102	<0.0300	<300	<300	n/a	n/a	100	300	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-48-4	Cobalt	ug/mL	102	<0.0100	<100	<100	n/a	n/a	101	100	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-47-3	Chromium	ug/mL	101	<5.00E-03	245	223	234	9.42	101	50.0	n/a	J
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<50.0	<50.0	n/a	n/a	99.6	50.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-53-1	Europium	ug/mL	98.8	<5.00E-03	<50.0	<50.0	n/a	n/a	98.0	50.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7439-89-6	Iron	ug/mL	102	<5.00E-03	<50.0	<50.0	n/a	n/a	100	50.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-09-7	Potassium	ug/mL	97.2	<0.500	<5.00E+03	<5.00E+03	n/a	n/a	97.4	5.00E+03	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7439-91-0	Lanthanum	ug/mL	102	<3.00E-03	<30.0	<30.0	n/a	n/a	101	30.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7439-93-2	Lithium	ug/mL	98.9	<3.00E-03	<30.0	<30.0	n/a	n/a	97.1	30.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7439-95-4	Magnesium	ug/mL	103	<0.0500	<500	<500	n/a	n/a	102	500	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7439-96-5	Manganese	ug/mL	100	<3.00E-03	<30.0	<30.0	n/a	n/a	101	30.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7439-98-7	Molybdenum	ug/mL	99.2	<0.0200	<200	<200	n/a	n/a	99.8	200	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-23-5	Sodium	ug/mL	98.1	<0.100	2.03E+05	2.17E+05	2.10E+05	6.78	96.9	1000	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-00-8	Neodymium	ug/mL	96.8	<0.0100	<100	<100	n/a	n/a	94.8	100	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-02-0	Nickel	ug/mL	101	<0.0200	507	493	500	2.82	101	200	n/a	J
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-30-1	Niobium	ug/mL	102	<0.0300	<300	<300	n/a	n/a	99.2	300	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7723-14-0	Phosphorus	ug/mL	99.6	<0.0500	1.98E+03	1.84E+03	1.91E+03	7.65	102	500	n/a	J
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7439-92-1	Lead	ug/mL	105	<0.0500	<500	<500	n/a	n/a	105	500	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-05-3	Palladium	ug/mL	105	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	93.8	1000	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-10-0	Praseodymium	ug/mL	101	<0.0100	<100	<100	n/a	n/a	98.0	100	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-17-7	Rubidium	ug/mL	102	<1.00	<1.00E+04	<1.00E+04	n/a	n/a	89.5	1.00E+04	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-16-6	Rhodium	ug/mL	99.8	<0.0500	<500	<500	n/a	n/a	95.7	500	n/a	U

	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<0.0300	<300	<300	n/a	n/a	98.9	300	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7704-34-9	Sulfur	ug/mL	99.3	<0.100	4.77E+03	4.67E+03	4.72E+03	2.00	100	1000	n/a	J
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-36-0	Antimony	ug/mL	100	<0.0500	<500	<500	n/a	n/a	99.7	500	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7782-49-2	Selenium	ug/mL	101	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	99.5	1000	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-21-3	Silicon	ug/mL	97.2	<0.0300	<300	<300	n/a	n/a	97.2	300	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-19-9	Samarium	ug/mL	98.7	<0.0200	<200	<200	n/a	n/a	95.9	200	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-31-5	Tin	ug/mL	104	<0.0300	<300	<300	n/a	n/a	101	300	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-24-6	Strontium	ug/mL	102	<3.00E-03	<30.0	<30.0	n/a	n/a	102	30.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-25-7	Tantalum	ug/mL	100	<0.0500	<500	<500	n/a	n/a	99.3	500	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		13494-80-9	Tellurium	ug/mL	103	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	102	1000	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-29-1	Thorium	ug/mL	95.4	<0.0500	<500	<500	n/a	n/a	93.8	500	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-32-6	Titanium	ug/mL	100	<5.00E-03	<50.0	<50.0	n/a	n/a	100	50.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-28-0	Thallium	ug/mL	99.1	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	97.0	1000	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-61-1	Uranium	ug/mL	98.0	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	94.6	1000	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-62-2	Vanadium	ug/mL	101	<5.00E-03	<50.0	<50.0	n/a	n/a	101	50.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-33-7	Tungsten	ug/mL	102	<0.200	<2.00E+03	<2.00E+03	n/a	n/a	100	2.00E+03	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-65-5	Yttrium	ug/mL	100	<2.00E-03	<20.0	<20.0	n/a	n/a	98.1	20.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-66-6	Zinc	ug/mL	98.5	<5.00E-03	<50.0	<50.0	n/a	n/a	98.7	50.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	ICP-AES		7440-67-7	Zirconium	ug/mL	99.5	<5.00E-03	<50.0	<50.0	n/a	n/a	100	50.0	n/a	U
	AN-102BL1c1	AN-102BL1c1	S11R000630	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	100	<41.7	4.39E+03	4.52E+03	4.46E+03	2.97	95.4	277	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	103	<1.79E-03	53.5	52.2	52.9	2.38	n/a	1.70E-03	0.285	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	83.3	87.6	86.4	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	101	<20.0	2.02E+04	n/a	n/a	n/a	n/a	200	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.42E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	105	<3.59E-04	0.157	0.154	0.155	2.14	n/a	2.98E-04	1.3	
	AN-102BL1c1	AN-102BL1c1	S11R000630	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	63.5	66.3	65.5	n/a	n/a	n/a	n/a	n/a	
	AN-102BL1c1	AN-102BL1c1	S11R000630	pH of Liquids		PH	pH	unitless	n/a	n/a	12.6	12.7	12.6	0.633	n/a	0.0100	n/a	
	AN-102a	AN-102a	S11R000380	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a2	AN-102a2	S11R000382	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<3.73E-05	1.38E-03	1.35E-03	1.36E-03	2.20	n/a	2.80E-05	5.38	
	AN-102a2a	AN-102a2a	S11R000386	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.56E-05	0.0398	0.0411	0.0404	3.21	n/a	3.62E-05	0.97	
	AN-102a2a	AN-102a2a	S11R000386	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	uCi/mL	n/a	102.01	104.25	106.10	n/a	n/a	n/a	3.2800E-05	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.12E-05	2.11E-04	1.66E-04	1.88E-04	23.9	n/a	1.55E-05	16.66	
	AN-102a2a	AN-102a2a	S11R000386	Americium Separation			Tracer Book No.		n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Americium Separation			Sample Volume	mL	n/a	0.100	0.100	0.100	0.100	0.0	n/a	n/a	n/a	Q

	AN-102a2a	AN-102a2a	S11R000386	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	15.4	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	110	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-22-4	Silver	ug/mL	98.5	<5.00E-03	<20.0	<20.0	n/a	n/a	93.2	20.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<0.0300	1.32E+04	1.33E+04	1.33E+04	0.266	98.3	120	n/a	
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-38-2	Arsenic	ug/mL	102	<0.0500	<200	<200	n/a	n/a	101	200	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-42-8	Boron	ug/mL	103	<0.0300	<120	<120	n/a	n/a	101	120	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-39-3	Barium	ug/mL	102	<3.00E-03	<12.0	<12.0	n/a	n/a	101	12.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-41-7	Beryllium	ug/mL	96.9	<1.00E-03	<4.00	<4.00	n/a	n/a	92.6	4.00	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-69-9	Bismuth	ug/mL	102	<0.100	<400	<400	n/a	n/a	100	400	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-70-2	Calcium	ug/mL	102	<0.0500	311	291	301	6.70	95.0	200	n/a	J
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-45-1	Cerium	ug/mL	103	<0.0300	<120	<120	n/a	n/a	99.8	120	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-48-4	Cobalt	ug/mL	99.5	<0.0100	<40.0	<40.0	n/a	n/a	93.6	40.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-47-3	Chromium	ug/mL	99.5	<5.00E-03	97.3	86.8	92.1	11.4	93.6	20.0	n/a	J
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	25.1	21.9	23.5	13.7	100	20.0	n/a	J
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-53-1	Europium	ug/mL	98.3	<5.00E-03	<20.0	<20.0	n/a	n/a	97.9	20.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7439-89-6	Iron	ug/mL	99.3	<5.00E-03	<20.0	<20.0	n/a	n/a	93.5	20.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-09-7	Potassium	ug/mL	94.4	<0.500	2.28E+03	<2.00E+03	n/a	n/a	86.3	2.00E+03	n/a	J
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7439-91-0	Lanthanum	ug/mL	99.3	<3.00E-03	<12.0	<12.0	n/a	n/a	94.3	12.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7439-93-2	Lithium	ug/mL	105	<3.00E-03	<12.0	<12.0	n/a	n/a	95.6	12.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<0.0500	<200	<200	n/a	n/a	93.3	200	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7439-96-5	Manganese	ug/mL	98.8	<3.00E-03	<12.0	<12.0	n/a	n/a	96.4	12.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7439-98-7	Molybdenum	ug/mL	104	<0.0200	<80.0	<80.0	n/a	n/a	99.0	80.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-23-5	Sodium	ug/mL	104	<0.100	2.17E+05	2.18E+05	2.18E+05	0.362	92.8	400	n/a	
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<0.0100	<40.0	<40.0	n/a	n/a	97.5	40.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-02-0	Nickel	ug/mL	99.1	<0.0200	420	431	425	2.60	94.1	80.0	n/a	J
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.63E+03	1.64E+03	1.63E+03	0.466	96.8	200	n/a	J
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7439-92-1	Lead	ug/mL	103	<0.0500	<200	<200	n/a	n/a	96.3	200	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-05-3	Palladium	ug/mL	97.0	<0.100	<400	<400	n/a	n/a	97.1	400	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-10-0	Praseodymium	ug/mL	102	<0.0100	<40.0	<40.0	n/a	n/a	98.0	40.0	n/a	U

	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-17-7	Rubidium	ug/mL	102	<1.00	<4.00E+03	<4.00E+03	n/a	n/a	98.7	4.00E+03	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-16-6	Rhodium	ug/mL	98.6	<0.0500	<200	<200	n/a	n/a	97.0	200	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-18-8	Ruthenium	ug/mL	98.7	<0.0300	<120	<120	n/a	n/a	97.4	120	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	4.71E+03	4.63E+03	4.67E+03	1.68	99.7	400	n/a	
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<200	<200	n/a	n/a	98.6	200	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7782-49-2	Selenium	ug/mL	101	<0.100	<400	<400	n/a	n/a	100	400	n/a	U

	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-21-3	Silicon	ug/mL	93.7	<0.0300	<120	<120	n/a	n/a	92.4	120	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-19-9	Samarium	ug/mL	104	<0.0200	<80.0	<80.0	n/a	n/a	99.4	80.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	114	113	113	0.719	96.4	12.0	n/a	J
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-25-7	Tantalum	ug/mL	101	<0.0500	<200	<200	n/a	n/a	98.1	200	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		13494-80-9	Tellurium	ug/mL	98.9	<0.100	<400	<400	n/a	n/a	98.2	400	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-29-1	Thorium	ug/mL	101	<0.0500	<200	<200	n/a	n/a	98.9	200	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-32-6	Titanium	ug/mL	104	<5.00E-03	<20.0	<20.0	n/a	n/a	97.3	20.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-28-0	Thallium	ug/mL	107	<0.100	<400	<400	n/a	n/a	95.3	400	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-61-1	Uranium	ug/mL	103	<0.100	<400	<400	n/a	n/a	98.5	400	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<5.00E-03	<20.0	<20.0	n/a	n/a	95.3	20.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-65-5	Yttrium	ug/mL	99.4	<2.00E-03	<8.00	<8.00	n/a	n/a	97.7	8.00	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-66-6	Zinc	ug/mL	97.8	<5.00E-03	<20.0	<20.0	n/a	n/a	95.1	20.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	ICP-AES		7440-67-7	Zirconium	ug/mL	100	<5.00E-03	<20.0	<20.0	n/a	n/a	95.0	20.0	n/a	U
	AN-102a2a	AN-102a2a	S11R000386	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.8	<9.22	5.15E+03	5.02E+03	5.08E+03	2.68	101	553	n/a	J
	AN-102a2a	AN-102a2a	S11R000386	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.7	<7.93E-03	4.53	4.57	4.55	0.889	n/a	0.0141	2.951	
	AN-102a2a	AN-102a2a	S11R000386	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.1	90.3	87.2	n/a	n/a	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.5	<20.0	2.05E+04	n/a	n/a	n/a	n/a	400	n/a	
	AN-102a2a	AN-102a2a	S11R000386	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	98.0	<7.00	1.22E+04	n/a	n/a	n/a	n/a	140	n/a	
	AN-102a2a	AN-102a2a	S11R000386	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	90.7	<7.52E-05	0.202	0.176	0.189	13.4	n/a	1.08E-04	0.5	
	AN-102a2a	AN-102a2a	S11R000386	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	66.3	44.6	49.8	n/a	n/a	n/a	n/a	n/a	
	AN-102a2a	AN-102a2a	S11R000386	pH of Liquids		PH	pH	unitless	n/a	n/a	>13	>13	n/a	n/a	n/a	0.0100	n/a	E
	AN-102a2b	AN-102a2b	S11R000564	Am241,Cm243 by TRU-Spec Resin	E	CM-243/244	Curium-243/244	uCi/g	n/a	<8.87E-05	7.70E-03	7.19E-03	7.44E-03	6.85	n/a	3.89E-05	4.32	
	AN-102a2b	AN-102a2b	S11R000564	Am241,Cm243 by TRU-Spec Resin	E	14596-10-2	Americium-241	uCi/g	93.4	1.89E-04	0.246	0.224	0.235	9.36	n/a	1.10E-04	0.72	
	AN-102a2b	AN-102a2b	S11R000564	Am241,Cm243 by TRU-Spec Resin	E	14993-75-0T	Americium-243T	uCi/g	n/a	110.99	104.43	109.21	n/a	n/a	n/a	1.1800E-04	n/a	
	AN-102a2b	AN-102a2b	S11R000564	Am241,Cm243 by TRU-Spec Resin	E	15510-73-3	Curium-242	uCi/g	n/a	<9.69E-05	1.03E-03	9.33E-04	9.82E-04	9.88	n/a	3.64E-05	11.47	
	AN-102a2b	AN-102a2b	S11R000564	Americium Separation	E		Tracer Book No.		n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	AN-102a2b	AN-102a2b	S11R000564	Americium Separation	E		Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	AN-102a2b	AN-102a2b	S11R000564	Americium Separation	E		Sample Volume	mL	n/a	0.100	0.100	0.100	0.100	0.0	n/a	n/a	n/a	Q
	AN-102a2b	AN-102a2b	S11R000564	Americium Separation	E		Standard/Spike Book No.		n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	AN-102a2b	AN-102a2b	S11R000564	Americium Separation	E		Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-22-4	Silver	ug/g	98.5	<1.73	<17.3	<21.9	n/a	n/a	86.5	17.3	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7429-90-5	Aluminum	ug/g	101	223	1.15E+04	1.08E+04	1.12E+04	6.02	99.8	104	n/a	B
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-38-2	Arsenic	ug/g	102	<20.7	<207	<263	n/a	n/a	102	207	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-42-8	Boron	ug/g	103	16.8	<104	<132	n/a	n/a	103	104	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-39-3	Barium	ug/g	102	<1.04	89.1	83.3	86.2	6.70	100	10.4	n/a	J
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-41-7	Beryllium	ug/g	96.9	<0.346	<3.46	<4.38	n/a	n/a	93.2	3.46	n/a	U

	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-69-9	Bismuth	ug/g	102	<34.6	<346	<438	n/a	n/a	102	346	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-70-2	Calcium	ug/g	102	488	679	803	741	16.8	96.7	173	n/a	BJ
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-45-1	Cerium	ug/g	103	<10.4	<104	<132	n/a	n/a	99.6	104	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-48-4	Cobalt	ug/g	99.5	<3.46	<34.6	<43.8	n/a	n/a	96.2	34.6	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-47-3	Chromium	ug/g	99.5	<1.73	612	581	597	5.11	95.6	17.3	n/a	
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-50-8	Copper	ug/g	101	<1.73	<17.3	<21.9	n/a	n/a	101	17.3	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-53-1	Europium	ug/g	98.3	<1.73	<17.3	<21.9	n/a	n/a	98.0	17.3	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7439-89-6	Iron	ug/g	99.3	15.9	117	100	109	15.1	95.8	17.3	n/a	BJ
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-09-7	Potassium	ug/g	94.4	<173	<1.73E+03	<2.19E+03	n/a	n/a	95.1	1.73E+03	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7439-91-0	Lanthanum	ug/g	99.3	<1.04	28.3	25.6	27.0	10.1	96.2	10.4	n/a	J
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7439-93-2	Lithium	ug/g	105	<1.04	<10.4	<13.2	n/a	n/a	102	10.4	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7439-95-4	Magnesium	ug/g	101	19.4	<173	<219	n/a	n/a	96.5	173	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7439-96-5	Manganese	ug/g	98.8	<1.04	9.54E+03	9.00E+03	9.27E+03	5.87	96.6	10.4	n/a	
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7439-98-7	Molybdenum	ug/g	104	<6.91	<69.1	<87.7	n/a	n/a	101	69.1	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-23-5	Sodium	ug/g	104	48.3	1.77E+05	1.68E+05	1.73E+05	4.98	80.5	691	n/a	
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-00-8	Neodymium	ug/g	101	<3.46	61.1	60.8	61.0	0.560	98.1	34.6	n/a	J
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-02-0	Nickel	ug/g	99.1	<6.91	286	304	295	6.03	96.0	69.1	n/a	J
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7723-14-0	Phosphorus	ug/g	103	<17.3	1.20E+03	1.22E+03	1.21E+03	1.30	96.7	173	n/a	J
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7439-92-1	Lead	ug/g	103	<17.3	<173	<219	n/a	n/a	99.1	173	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-05-3	Palladium	ug/g	97.0	<34.6	<346	<438	n/a	n/a	97.5	346	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-10-0	Praseodymium	ug/g	102	<3.46	<34.6	<43.8	n/a	n/a	98.9	34.6	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-17-7	Rubidium	ug/g	102	<346	<3.46E+03	<4.38E+03	n/a	n/a	96.0	3.46E+03	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-16-6	Rhodium	ug/g	98.6	<17.3	<173	<219	n/a	n/a	98.1	173	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-18-8	Ruthenium	ug/g	98.7	<10.4	<104	<132	n/a	n/a	96.7	104	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7704-34-9	Sulfur	ug/g	104	<34.6	3.51E+03	3.38E+03	3.44E+03	3.78	100	346	n/a	
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-36-0	Antimony	ug/g	101	<17.3	<173	<219	n/a	n/a	100	173	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7782-49-2	Selenium	ug/g	101	<34.6	<346	<438	n/a	n/a	101	346	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-21-3	Silicon	ug/g	93.7	<10.4	<104	<132	n/a	n/a	92.2	104	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-19-9	Samarium	ug/g	104	<6.91	<69.1	<87.7	n/a	n/a	100	69.1	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-24-6	Strontium	ug/g	100	2.02	5.19E+03	4.75E+03	4.97E+03	8.84	97.5	10.4	n/a	
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-25-7	Tantalum	ug/g	101	<17.3	<173	<219	n/a	n/a	96.6	173	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	13494-80-9	Tellurium	ug/g	98.9	<34.6	<346	<438	n/a	n/a	98.9	346	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-29-1	Thorium	ug/g	101	<17.3	<173	<219	n/a	n/a	98.2	173	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-32-6	Titanium	ug/g	104	<1.73	<17.3	<21.9	n/a	n/a	99.0	17.3	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-28-0	Thallium	ug/g	107	<34.6	<346	<438	n/a	n/a	103	346	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-61-1	Uranium	ug/g	103	<34.6	<346	<438	n/a	n/a	99.7	346	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-62-2	Vanadium	ug/g	100	<1.73	<17.3	<21.9	n/a	n/a	96.9	17.3	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-65-5	Yttrium	ug/g	99.4	<0.691	<6.91	<8.77	n/a	n/a	97.3	6.91	n/a	U

	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-66-6	Zinc	ug/g	97.8	3.01	<17.3	<21.9	n/a	n/a	96.0	17.3	n/a	U
	AN-102a2b	AN-102a2b	S11R000564	ICP-AES	E	7440-67-7	Zirconium	ug/g	100	<1.73	23.0	<21.9	n/a	n/a	96.2	17.3	n/a	J
	AN-102a2b	AN-102a2b	S11R000564	STRONTIUM-90 SEPARATION	E		RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a2b	AN-102a2b	S11R000564	Sr-89/90 by GPC	E	SR-89/90	Strontium-89/90	uCi/g	96.2	<0.0681	134	125	129	6.36	n/a	0.0118	0.7	
	AN-102a2b	AN-102a2b	S11R000564	Sr-89/90 by GPC	E	7440-24-6C	Strontium-C	%	n/a	89.3	89.8	89.6	n/a	n/a	n/a	n/a	n/a	
	AN-102a2b	AN-102a2b	S11R000564	TC-99 SEPARATION	E		RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a2b	AN-102a2b	S11R000564	Technetium - Liq. Scint.	E	14133-76-7	Technetium-99	uCi/g	97.4	<1.79E-03	0.0964	0.0875	0.0920	9.61	n/a	9.96E-04	3.3	
	AN-102a2b	AN-102a2b	S11R000564	Technetium - Liq. Scint.	E	14133-76-7T	Technetium-99T	%	n/a	67.4	67.9	68.2	n/a	n/a	n/a	n/a	n/a	
	AN-102a2s	AN-102a2s	S11R000559	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	3.59	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102a2s	AN-102a2s	S11R000559	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	36.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a2s	AN-102a2s	S11R000559	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.5	<20.0	1.80E+04	1.67E+04	1.74E+04	7.49	104	234	n/a	
	AN-102a2s	AN-102a2s	S11R000559	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	98.7	<7.00	9.81E+03	9.47E+03	9.64E+03	3.53	91.0	82.0	n/a	
	AN-102a3	AN-102a3	S11R000383	Centrifuge Liquid / hotcell			Centrifuge	CONES	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3L	AN-102a3L	S12R000155	Am241,Cm243 by TRU-Spec Resin	E	CM-243/244	Curium-243/244	uCi/mL	n/a	<5.49E-05	1.79E-03	n/a	n/a	n/a	n/a	5.50E-05	6.90	
	AN-102a3L	AN-102a3L	S12R000155	Am241,Cm243 by TRU-Spec Resin	E	14596-10-2	Americium-241	uCi/mL	98.5	8.02E-05	0.0589	n/a	n/a	n/a	n/a	5.70E-05	1.13	

	AN-102a3L	AN-102a3L	S12R000155	Am241,Cm243 by TRU-Spec Resin	E	14993-75-0T	Americium-243T	uCi/mL	n/a	102.65	103.80	n/a	n/a	n/a	n/a	5.6000E-05	n/a	
	AN-102a3L	AN-102a3L	S12R000155	Am241,Cm243 by TRU-Spec Resin	E	15510-73-3	Curium-242	uCi/mL	n/a	<2.02E-05	2.02E-04	n/a	n/a	n/a	n/a	2.38E-05	21.30	
	AN-102a3L	AN-102a3L	S12R000155	Americium Separation	E		Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3L	AN-102a3L	S12R000155	Americium Separation	E		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3L	AN-102a3L	S12R000155	Americium Separation	E		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102a3L	AN-102a3L	S12R000155	Americium Separation	E		Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3L	AN-102a3L	S12R000155	Americium Separation	E		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3S	AN-102a3S	S12R000156	Am241,Cm243 by TRU-Spec Resin	F	CM-243/244	Curium-243/244	uCi/g	n/a	<2.42E-05	5.32E-03	5.46E-03	5.39E-03	2.60	n/a	2.96E-05	2.80	
	AN-102a3S	AN-102a3S	S12R000156	Am241,Cm243 by TRU-Spec Resin	F	14596-10-2	Americium-241	uCi/g	94.2	1.20E-04	0.165	0.182	0.174	9.80	n/a	3.30E-05	0.47	
	AN-102a3S	AN-102a3S	S12R000156	Am241,Cm243 by TRU-Spec Resin	F	14993-75-0T	Americium-243T	%	n/a	100.24	105.42	107.19	n/a	n/a	n/a	n/a	n/a	
	AN-102a3S	AN-102a3S	S12R000156	Am241,Cm243 by TRU-Spec Resin	F	15510-73-3	Curium-242	uCi/g	n/a	<9.94E-06	8.52E-04	8.02E-04	8.27E-04	6.05	n/a	1.14E-05	7.04	
	AN-102a3S	AN-102a3S	S12R000156	Americium Separation	F		Tracer Book No.	mL	n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	AN-102a3S	AN-102a3S	S12R000156	Americium Separation	F		Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	AN-102a3S	AN-102a3S	S12R000156	Americium Separation	F		Sample Volume	mL	n/a	0.500	0.500	0.500	0.500	0.0	n/a	n/a	n/a	Q
	AN-102a3S	AN-102a3S	S12R000156	Americium Separation	F		Standard/Spike Book No.	mL	n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	AN-102a3S	AN-102a3S	S12R000156	Americium Separation	F		Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<5.47E-06	1.59E-03	1.49E-03	1.54E-03	6.49	n/a	6.10E-06	2.33	
	AN-102a3a	AN-102a3a	S11R000387	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	1.30E-05	0.0455	0.0460	0.0458	1.09	n/a	6.81E-06	0.41	
	AN-102a3a	AN-102a3a	S11R000387	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	92.770	102.28	101.50	n/a	n/a	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.17E-06	1.13E-04	1.31E-04	1.22E-04	14.8	n/a	2.08E-06	8.28	
	AN-102a3a	AN-102a3a	S11R000387	Americium Separation			Tracer Book No.		n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	Americium Separation			Tracer Volume	mL	n/a	0.500	0.500	0.500	0.500	0.0	n/a	n/a	n/a	

	AN-102a3a	AN-102a3a	S11R000387	Americium Separation			Sample Volume	mL	n/a	0.500	0.500	0.500	0.500	0.0	n/a	n/a	n/a	Q
	AN-102a3a	AN-102a3a	S11R000387	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-22-4	Silver	ug/mL	95.3	<5.00E-03	<50.0	<50.0	n/a	n/a	101	50.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7429-90-5	Aluminum	ug/mL	95.8	<0.0300	1.16E+04	1.17E+04	1.17E+04	0.854	101	300	n/a	
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-38-2	Arsenic	ug/mL	100	<0.0500	<500	<500	n/a	n/a	103	500	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-42-8	Boron	ug/mL	102	<0.0300	<300	<300	n/a	n/a	101	300	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-39-3	Barium	ug/mL	99.4	<3.00E-03	<30.0	<30.0	n/a	n/a	100	30.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-41-7	Beryllium	ug/mL	95.4	<1.00E-03	<10.0	<10.0	n/a	n/a	97.9	10.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-69-9	Bismuth	ug/mL	99.7	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	97.9	1000	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-70-2	Calcium	ug/mL	110	<0.0500	<500	<500	n/a	n/a	110	500	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-43-9	Cadmium	ug/mL	99.0	<5.00E-03	53.5	58.5	56.0	9.00	99.0	50.0	n/a	J
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-45-1	Cerium	ug/mL	101	<0.0300	<300	<300	n/a	n/a	102	300	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-48-4	Cobalt	ug/mL	99.6	<0.0100	<100	<100	n/a	n/a	101	100	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-47-3	Chromium	ug/mL	99.1	<5.00E-03	74.6	97.2	85.9	26.3	99.5	50.0	n/a	J
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<50.0	<50.0	n/a	n/a	101	50.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-53-1	Europium	ug/mL	97.8	<5.00E-03	<50.0	<50.0	n/a	n/a	98.4	50.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<5.00E-03	132	<50.0	n/a	n/a	99.3	50.0	n/a	J
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-09-7	Potassium	ug/mL	99.1	<0.500	<5.00E+03	<5.00E+03	n/a	n/a	110	5.00E+03	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7439-91-0	Lanthanum	ug/mL	100	<3.00E-03	<30.0	<30.0	n/a	n/a	101	30.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7439-93-2	Lithium	ug/mL	102	<3.00E-03	<30.0	<30.0	n/a	n/a	103	30.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7439-95-4	Magnesium	ug/mL	103	<0.0500	<500	<500	n/a	n/a	103	500	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7439-96-5	Manganese	ug/mL	98.5	<3.00E-03	<30.0	<30.0	n/a	n/a	100	30.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7439-98-7	Molybdenum	ug/mL	100	<0.0200	<200	<200	n/a	n/a	101	200	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-23-5	Sodium	ug/mL	100	<0.100	2.52E+05	2.47E+05	2.49E+05	2.26	91.5	1000	n/a	
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-00-8	Neodymium	ug/mL	92.0	<0.0100	<100	<100	n/a	n/a	91.4	100	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-02-0	Nickel	ug/mL	100	<0.0200	478	582	530	19.5	99.0	200	n/a	J
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-30-1	Niobium	ug/mL	99.9	<0.0300	<300	<300	n/a	n/a	101	300	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.86E+03	1.88E+03	1.87E+03	0.930	101	500	n/a	J
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7439-92-1	Lead	ug/mL	104	<0.0500	<500	<500	n/a	n/a	103	500	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-05-3	Palladium	ug/mL	107	<0.100	<1.00E+03	1.02E+03	n/a	n/a	107	1000	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-10-0	Praseodymium	ug/mL	93.9	<0.0100	<100	<100	n/a	n/a	94.3	100	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-16-6	Rhodium	ug/mL	102	<0.0500	<500	<500	n/a	n/a	104	500	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-18-8	Ruthenium	ug/mL	103	<0.0300	<300	<300	n/a	n/a	99.8	300	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	5.24E+03	5.24E+03	5.24E+03	0.117	103	1000	n/a	J
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<500	<500	n/a	n/a	103	500	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7782-49-2	Selenium	ug/mL	98.0	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	101	1000	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-21-3	Silicon	ug/mL	104	<0.0300	<300	<300	n/a	n/a	108	300	n/a	U

	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-19-9	Samarium	ug/mL	97.4	<0.0200	<200	<200	n/a	n/a	97.5	200	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-31-5	Tin	ug/mL	102	<0.0300	<300	<300	n/a	n/a	103	300	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	93.6	94.5	94.1	0.986	99.8	30.0	n/a	J
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-25-7	Tantalum	ug/mL	98.4	<0.0500	<500	<500	n/a	n/a	100	500	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		13494-80-9	Tellurium	ug/mL	102	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	102	1000	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-29-1	Thorium	ug/mL	95.0	<0.0500	<500	<500	n/a	n/a	94.3	500	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-32-6	Titanium	ug/mL	102	<5.00E-03	<50.0	<50.0	n/a	n/a	101	50.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-28-0	Thallium	ug/mL	103	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	100	1000	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-61-1	Uranium	ug/mL	95.3	<0.100	<1.00E+03	<1.00E+03	n/a	n/a	99.9	1000	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-62-2	Vanadium	ug/mL	98.8	<5.00E-03	<50.0	<50.0	n/a	n/a	100	50.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-33-7	Tungsten	ug/mL	101	<0.200	<2.00E+03	<2.00E+03	n/a	n/a	100	2.00E+03	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-65-5	Yttrium	ug/mL	99.5	<2.00E-03	<20.0	<20.0	n/a	n/a	99.8	20.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-66-6	Zinc	ug/mL	97.6	<5.00E-03	<50.0	<50.0	n/a	n/a	98.3	50.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	ICP-AES		7440-67-7	Zirconium	ug/mL	101	<5.00E-03	<50.0	<50.0	n/a	n/a	101	50.0	n/a	U
	AN-102a3a	AN-102a3a	S11R000387	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	103	<41.7	4.81E+03	n/a	n/a	n/a	n/a	1.11E+03	n/a	
	AN-102a3a	AN-102a3a	S11R000387	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	98.3	8.49E-03	2.42	2.43	2.43	0.294	n/a	7.55E-03	2.961	
	AN-102a3a	AN-102a3a	S11R000387	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	88.8	86.4	87.8	n/a	n/a	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.3	<20.0	2.14E+04	2.19E+04	2.16E+04	2.31	107	200	n/a	
	AN-102a3a	AN-102a3a	S11R000387	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	100	<7.00	1.35E+04	1.35E+04	1.35E+04	0.0	90.2	70.0	n/a	
	AN-102a3a	AN-102a3a	S11R000387	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	105	<3.59E-04	0.160	n/a	n/a	n/a	n/a	2.95E-04	1.3	
	AN-102a3a	AN-102a3a	S11R000387	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	63.5	67.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3a	AN-102a3a	S11R000387	pH of Liquids		PH	pH	unitless	n/a	n/a	>13	>13	n/a	n/a	n/a	0.0100	n/a	E
	AN-102a3b	AN-102a3b	S11R000565	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<9.55E-04	6.54E-03	7.00E-03	6.77E-03	6.79	n/a	7.60E-04	13.60	
	AN-102a3b	AN-102a3b	S11R000565	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	97.1	<7.59E-04	0.161	0.216	0.188	29.2	n/a	9.63E-04	2.54	c
	AN-102a3b	AN-102a3b	S11R000565	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	98.720	98.200	103.45	n/a	n/a	n/a	6.6300E-04	n/a	
	AN-102a3b	AN-102a3b	S11R000565	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.75E-04	<5.45E-04	3.43E-04	n/a	n/a	n/a	5.45E-04	n/a	U
	AN-102a3b	AN-102a3b	S11R000565	Americium Separation	A		Tracer Book No.		n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	AN-102a3b	AN-102a3b	S11R000565	Americium Separation	A		Tracer Volume	mL	n/a	0.200	0.200	0.200	0.200	0.0	n/a	n/a	n/a	
	AN-102a3b	AN-102a3b	S11R000565	Americium Separation	A		Sample Volume	mL	n/a	1.00	1.00	1.00	1.00	0.0	n/a	n/a	n/a	Q
	AN-102a3b	AN-102a3b	S11R000565	Americium Separation	A		Standard/Spike Book No.		n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	AN-102a3b	AN-102a3b	S11R000565	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7429-90-5	Aluminum	ug/g	81.1	<0.0300	1.25E+04	1.34E+04	1.29E+04	6.73	83.8	781	n/a	
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7440-39-3	Barium	ug/g	88.3	<3.00E-03	89.8	101	95.3	11.6	98.9	78.1	n/a	J
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7440-47-3	Chromium	ug/g	84.6	6.30E-03	423	589	506	32.9	105	130	n/a	BJ
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7439-89-6	Iron	ug/g	85.3	<5.00E-03	<130	<143	n/a	n/a	113	130	n/a	U

	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7439-96-5	Manganese	ug/g	83.5	<3.00E-03	5.70E+03	8.11E+03	6.91E+03	34.8	106	78.1	n/a	
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7440-23-5	Sodium	ug/g	91.9	<0.100	1.44E+05	1.51E+05	1.48E+05	4.34	869	2.60E+03	n/a	
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7440-02-0	Nickel	ug/g	84.5	<0.0200	<521	<572	n/a	n/a	151	521	n/a	Ub
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7723-14-0	Phosphorus	ug/g	82.8	<0.0500	1.98E+03	2.10E+03	2.04E+03	5.85	97.9	1.30E+03	n/a	J
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7704-34-9	Sulfur	ug/g	80.6	<0.100	3.08E+03	n/a	n/a	n/a	128	2.60E+03	n/a	Jb
	AN-102a3b	AN-102a3b	S11R000565	ICP-AES	A	7440-24-6	Strontium	ug/g	90.0	<3.00E-03	6.78E+03	6.20E+03	6.49E+03	8.93	-93.8	78.1	n/a	
	AN-102a3b	AN-102a3b	S11R000565	STRONTIUM-90 SEPARATION	A		RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3b	AN-102a3b	S11R000565	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.9	<3.66E-04	123	126	124	2.78	n/a	0.0281	0.888	
	AN-102a3b	AN-102a3b	S11R000565	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	88.0	88.6	73.0	n/a	n/a	n/a	n/a	n/a	
	AN-102a3b	AN-102a3b	S11R000565	TC-99 SEPARATION	A		RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a3b	AN-102a3b	S11R000565	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	102	<9.40E-04	0.0976	0.105	0.101	7.32	n/a	7.90E-04	2.8	
	AN-102a3b	AN-102a3b	S11R000565	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	65.4	66.5	64.5	n/a	n/a	n/a	n/a	n/a	
	AN-102a3s Composite (1)	AN-102a3s Composite (1)	S11R000767	% Water by TGA		%WATER	Percent water	%	96.3	n/a	47.3	49.0	48.2	3.38	n/a	0.0100	n/a	
	AN-102a3s Composite (1)	AN-102a3s Composite (1)	S11R000767	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	102	<20.0	1.74E+04	1.77E+04	1.76E+04	1.71	95.5	120	n/a	
	AN-102a3s Composite (1)	AN-102a3s Composite (1)	S11R000767	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	101	<7.00	1.03E+04	1.05E+04	1.04E+04	1.92	81.1	42.0	n/a	
	AN-102a4	AN-102a4	S12R000379	Centrifuge Liquid / hotcell			Centrifuge	None	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a4	AN-102a4	S12R000379	Transfer of Samples between Databases			MultiLIMS Sample Number	None	n/a	n/a	S11R000380	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102a4	AN-102a4	S12R000379	Transfer of Samples between Databases			Jar Number	None	n/a	n/a	S11R000380	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b	AN-102b	S11R000391	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<3.73E-05	1.24E-03	n/a	n/a	n/a	n/a	2.65E-05	5.51	
	AN-102b2a	AN-102b2a	S11R000588	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.56E-05	0.0383	n/a	n/a	n/a	n/a	2.58E-05	0.98	
	AN-102b2a	AN-102b2a	S11R000588	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	uCi/mL	n/a	102.01	105.47	n/a	n/a	n/a	n/a	3.8000E-05	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.12E-05	1.12E-04	n/a	n/a	n/a	n/a	1.16E-05	19.99	
	AN-102b2a	AN-102b2a	S11R000588	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Americium Separation			Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102b2a	AN-102b2a	S11R000588	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	12.3	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	100	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-22-4	Silver	ug/mL	98.5	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<0.0300	1.18E+04	n/a	n/a	n/a	n/a	120	n/a	
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-38-2	Arsenic	ug/mL	102	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-42-8	Boron	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-39-3	Barium	ug/mL	102	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-41-7	Beryllium	ug/mL	96.9	<1.00E-03	<4.00	n/a	n/a	n/a	n/a	4.00	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-69-9	Bismuth	ug/mL	102	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-70-2	Calcium	ug/mL	102	<0.0500	301	n/a	n/a	n/a	n/a	200	n/a	J

	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-45-1	Cerium	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-48-4	Cobalt	ug/mL	99.5	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-47-3	Chromium	ug/mL	99.5	<5.00E-03	67.0	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-53-1	Europium	ug/mL	98.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7439-89-6	Iron	ug/mL	99.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-09-7	Potassium	ug/mL	94.4	<0.500	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7439-91-0	Lanthanum	ug/mL	99.3	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7439-93-2	Lithium	ug/mL	105	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7439-96-5	Manganese	ug/mL	98.8	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7439-98-7	Molybdenum	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-23-5	Sodium	ug/mL	104	<0.100	2.04E+05	n/a	n/a	n/a	n/a	400	n/a	
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-02-0	Nickel	ug/mL	99.1	<0.0200	346	n/a	n/a	n/a	n/a	80.0	n/a	J
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.53E+03	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7439-92-1	Lead	ug/mL	103	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-05-3	Palladium	ug/mL	97.0	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-10-0	Praseodymium	ug/mL	102	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-17-7	Rubidium	ug/mL	102	<1.00	<4.00E+03	n/a	n/a	n/a	n/a	4.00E+03	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-16-6	Rhodium	ug/mL	98.6	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-18-8	Ruthenium	ug/mL	98.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	4.29E+03	n/a	n/a	n/a	n/a	400	n/a	
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7782-49-2	Selenium	ug/mL	101	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-21-3	Silicon	ug/mL	93.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-19-9	Samarium	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	90.2	n/a	n/a	n/a	n/a	12.0	n/a	J
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-25-7	Tantalum	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		13494-80-9	Tellurium	ug/mL	98.9	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-29-1	Thorium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-32-6	Titanium	ug/mL	104	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-28-0	Thallium	ug/mL	107	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-61-1	Uranium	ug/mL	103	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-65-5	Yttrium	ug/mL	99.4	<2.00E-03	<8.00	n/a	n/a	n/a	n/a	8.00	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-66-6	Zinc	ug/mL	97.8	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102b2a	AN-102b2a	S11R000588	ICP-AES		7440-67-7	Zirconium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U

	AN-102b2a	AN-102b2a	S11R000588	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.8	<9.22	5.57E+03	n/a	n/a	n/a	n/a	553	n/a	
	AN-102b2a	AN-102b2a	S11R000588	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.7	<7.93E-03	4.06	n/a	n/a	n/a	n/a	0.0142	3.131	
	AN-102b2a	AN-102b2a	S11R000588	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.1	89.3	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b2a	AN-102b2a	S11R000588	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.5	<20.0	2.03E+04	n/a	n/a	n/a	n/a	400	n/a	
	AN-102b2a	AN-102b2a	S11R000588	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	98.0	<7.00	1.21E+04	n/a	n/a	n/a	n/a	140	n/a	
	AN-102b2a	AN-102b2a	S11R000588	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	90.7	<7.52E-05	0.121	n/a	n/a	n/a	n/a	6.86E-05	0.5	
	AN-102b2a	AN-102b2a	S11R000588	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	66.3	70.7	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3	AN-102b3	S11R000394	Centrifuge Liquid / hotcell			Centrifuge	CONES	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<5.47E-06	1.32E-03	n/a	n/a	n/a	n/a	4.99E-06	2.55	
	AN-102b3a	AN-102b3a	S11R000618	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	1.30E-05	0.0401	n/a	n/a	n/a	n/a	6.25E-06	0.44	
	AN-102b3a	AN-102b3a	S11R000618	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	92.770	99.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.17E-06	1.18E-04	n/a	n/a	n/a	n/a	2.11E-06	8.14	
	AN-102b3a	AN-102b3a	S11R000618	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	Americium Separation			Tracer Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	Americium Separation			Sample Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102b3a	AN-102b3a	S11R000618	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-22-4	Silver	ug/mL	95.3	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7429-90-5	Aluminum	ug/mL	95.8	<0.0300	1.30E+04	n/a	n/a	n/a	n/a	300	n/a	

	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-38-2	Arsenic	ug/mL	100	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-42-8	Boron	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-39-3	Barium	ug/mL	99.4	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-41-7	Beryllium	ug/mL	95.4	<1.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-69-9	Bismuth	ug/mL	99.7	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-70-2	Calcium	ug/mL	110	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-43-9	Cadmium	ug/mL	99.0	<5.00E-03	86.0	n/a	n/a	n/a	n/a	50.0	n/a	J
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-45-1	Cerium	ug/mL	101	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-48-4	Cobalt	ug/mL	99.6	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-47-3	Chromium	ug/mL	99.1	<5.00E-03	50.4	n/a	n/a	n/a	n/a	50.0	n/a	J
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-53-1	Europium	ug/mL	97.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-09-7	Potassium	ug/mL	99.1	<0.500	<5.00E+03	n/a	n/a	n/a	n/a	5.00E+03	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7439-91-0	Lanthanum	ug/mL	100	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7439-93-2	Lithium	ug/mL	102	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U

	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7439-95-4	Magnesium	ug/mL	103	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7439-96-5	Manganese	ug/mL	98.5	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7439-98-7	Molybdenum	ug/mL	100	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-23-5	Sodium	ug/mL	100	<0.100	2.45E+05	n/a	n/a	n/a	n/a	1000	n/a	
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-00-8	Neodymium	ug/mL	92.0	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-02-0	Nickel	ug/mL	100	<0.0200	461	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-30-1	Niobium	ug/mL	99.9	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.65E+03	n/a	n/a	n/a	n/a	500	n/a	J
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7439-92-1	Lead	ug/mL	104	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-05-3	Palladium	ug/mL	107	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-10-0	Praseodymium	ug/mL	93.9	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-16-6	Rhodium	ug/mL	102	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-18-8	Ruthenium	ug/mL	103	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	5.03E+03	n/a	n/a	n/a	n/a	1000	n/a	J
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7782-49-2	Selenium	ug/mL	98.0	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-21-3	Silicon	ug/mL	104	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-19-9	Samarium	ug/mL	97.4	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-31-5	Tin	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	94.6	n/a	n/a	n/a	n/a	30.0	n/a	J
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-25-7	Tantalum	ug/mL	98.4	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		13494-80-9	Tellurium	ug/mL	102	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-29-1	Thorium	ug/mL	95.0	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-32-6	Titanium	ug/mL	102	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-28-0	Thallium	ug/mL	103	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-61-1	Uranium	ug/mL	95.3	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-62-2	Vanadium	ug/mL	98.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-33-7	Tungsten	ug/mL	101	<0.200	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-65-5	Yttrium	ug/mL	99.5	<2.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-66-6	Zinc	ug/mL	97.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	ICP-AES		7440-67-7	Zirconium	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102b3a	AN-102b3a	S11R000618	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	103	<41.7	4.76E+03	n/a	n/a	n/a	n/a	1.11E+03	n/a	
	AN-102b3a	AN-102b3a	S11R000618	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	98.3	8.49E-03	2.44	n/a	n/a	n/a	n/a	7.43E-03	2.928	
	AN-102b3a	AN-102b3a	S11R000618	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	88.8	87.3	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b3a	AN-102b3a	S11R000618	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.3	<20.0	2.15E+04	n/a	n/a	n/a	n/a	200	n/a	
	AN-102b3a	AN-102b3a	S11R000618	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	100	<7.00	1.25E+04	n/a	n/a	n/a	n/a	70.0	n/a	

	AN-102b3a	AN-102b3a	S11R000618	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	103	<2.91E-04	0.159	n/a	n/a	n/a	n/a	2.89E-04	1.3	
	AN-102b3a	AN-102b3a	S11R000618	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	67.5	68.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b4	AN-102b4	S12R000380	Centrifuge Liquid / hotcell			Centrifuge	None	n/a	n/a	2.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b4	AN-102b4	S12R000380	Transfer of Samples between Databases			MultiLIMS Sample Number	None	n/a	n/a	S11R000391	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102b4	AN-102b4	S12R000380	Transfer of Samples between Databases			Jar Number	None	n/a	n/a	S11R000391	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c	AN-102c	S11R000396	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<3.73E-05	1.34E-03	n/a	n/a	n/a	n/a	3.70E-05	5.50	
	AN-102c2a	AN-102c2a	S11R000591	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.56E-05	0.0448	n/a	n/a	n/a	n/a	3.07E-05	0.92	
	AN-102c2a	AN-102c2a	S11R000591	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	uCi/mL	n/a	102.01	102.18	n/a	n/a	n/a	n/a	2.8400E-05	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.12E-05	1.80E-04	n/a	n/a	n/a	n/a	1.21E-05	16.01	
	AN-102c2a	AN-102c2a	S11R000591	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Americium Separation			Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102c2a	AN-102c2a	S11R000591	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	14.7	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	110	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-22-4	Silver	ug/mL	98.5	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<0.0300	1.36E+04	n/a	n/a	n/a	n/a	120	n/a	
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-38-2	Arsenic	ug/mL	102	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-42-8	Boron	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-39-3	Barium	ug/mL	102	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-41-7	Beryllium	ug/mL	96.9	<1.00E-03	<4.00	n/a	n/a	n/a	n/a	4.00	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-69-9	Bismuth	ug/mL	102	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-70-2	Calcium	ug/mL	102	<0.0500	309	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-45-1	Cerium	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-48-4	Cobalt	ug/mL	99.5	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-47-3	Chromium	ug/mL	99.5	<5.00E-03	87.2	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-53-1	Europium	ug/mL	98.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7439-89-6	Iron	ug/mL	99.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-09-7	Potassium	ug/mL	94.4	<0.500	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7439-91-0	Lanthanum	ug/mL	99.3	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7439-93-2	Lithium	ug/mL	105	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7439-96-5	Manganese	ug/mL	98.8	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7439-98-7	Molybdenum	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-23-5	Sodium	ug/mL	104	<0.100	2.29E+05	n/a	n/a	n/a	n/a	400	n/a	

	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-02-0	Nickel	ug/mL	99.1	<0.0200	426	n/a	n/a	n/a	n/a	80.0	n/a	J
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.71E+03	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7439-92-1	Lead	ug/mL	103	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-05-3	Palladium	ug/mL	97.0	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U

	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-10-0	Praseodymium	ug/mL	102	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-17-7	Rubidium	ug/mL	102	<1.00	<4.00E+03	n/a	n/a	n/a	n/a	4.00E+03	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-16-6	Rhodium	ug/mL	98.6	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-18-8	Ruthenium	ug/mL	98.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	4.84E+03	n/a	n/a	n/a	n/a	400	n/a	
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7782-49-2	Selenium	ug/mL	101	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-21-3	Silicon	ug/mL	93.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-19-9	Samarium	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	134	n/a	n/a	n/a	n/a	12.0	n/a	
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-25-7	Tantalum	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		13494-80-9	Tellurium	ug/mL	98.9	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-29-1	Thorium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-32-6	Titanium	ug/mL	104	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-28-0	Thallium	ug/mL	107	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-61-1	Uranium	ug/mL	103	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-65-5	Yttrium	ug/mL	99.4	<2.00E-03	<8.00	n/a	n/a	n/a	n/a	8.00	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-66-6	Zinc	ug/mL	97.8	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	ICP-AES		7440-67-7	Zirconium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c2a	AN-102c2a	S11R000591	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.8	<9.22	5.33E+03	n/a	n/a	n/a	n/a	553	n/a	J
	AN-102c2a	AN-102c2a	S11R000591	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.7	<7.93E-03	5.07	n/a	n/a	n/a	n/a	0.0140	2.78	
	AN-102c2a	AN-102c2a	S11R000591	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.1	90.1	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c2a	AN-102c2a	S11R000591	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.5	<20.0	2.12E+04	n/a	n/a	n/a	n/a	400	n/a	
	AN-102c2a	AN-102c2a	S11R000591	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	98.0	<7.00	1.26E+04	n/a	n/a	n/a	n/a	140	n/a	
	AN-102c2a	AN-102c2a	S11R000591	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	90.7	<7.52E-05	0.173	n/a	n/a	n/a	n/a	9.63E-05	0.5	
	AN-102c2a	AN-102c2a	S11R000591	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	66.3	50.7	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3	AN-102c3	S11R000399	Centrifuge Liquid / hotcell			Centrifuge	CONES	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<5.47E-06	1.49E-03	n/a	n/a	n/a	n/a	5.80E-06	2.34	
	AN-102c3a	AN-102c3a	S11R000621	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	1.30E-05	0.0443	n/a	n/a	n/a	n/a	7.93E-06	0.40	

	AN-102c3a	AN-102c3a	S11R000621	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	92.770	106.98	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.17E-06	1.21E-04	n/a	n/a	n/a	n/a	1.98E-06	7.81	
	AN-102c3a	AN-102c3a	S11R000621	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	Americium Separation			Tracer Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	Americium Separation			Sample Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102c3a	AN-102c3a	S11R000621	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-22-4	Silver	ug/mL	95.3	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7429-90-5	Aluminum	ug/mL	95.8	<0.0300	1.28E+04	n/a	n/a	n/a	n/a	300	n/a	
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-38-2	Arsenic	ug/mL	100	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-42-8	Boron	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-39-3	Barium	ug/mL	99.4	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-41-7	Beryllium	ug/mL	95.4	<1.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-69-9	Bismuth	ug/mL	99.7	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-70-2	Calcium	ug/mL	110	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-43-9	Cadmium	ug/mL	99.0	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-45-1	Cerium	ug/mL	101	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-48-4	Cobalt	ug/mL	99.6	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-47-3	Chromium	ug/mL	99.1	<5.00E-03	84.9	n/a	n/a	n/a	n/a	50.0	n/a	J
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-53-1	Europium	ug/mL	97.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-09-7	Potassium	ug/mL	99.1	<0.500	<5.00E+03	n/a	n/a	n/a	n/a	5.00E+03	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7439-91-0	Lanthanum	ug/mL	100	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7439-93-2	Lithium	ug/mL	102	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7439-95-4	Magnesium	ug/mL	103	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7439-96-5	Manganese	ug/mL	98.5	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7439-98-7	Molybdenum	ug/mL	100	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-23-5	Sodium	ug/mL	100	<0.100	2.38E+05	n/a	n/a	n/a	n/a	1000	n/a	
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-00-8	Neodymium	ug/mL	92.0	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-02-0	Nickel	ug/mL	100	<0.0200	385	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-30-1	Niobium	ug/mL	99.9	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.79E+03	n/a	n/a	n/a	n/a	500	n/a	J
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7439-92-1	Lead	ug/mL	104	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-05-3	Palladium	ug/mL	107	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-10-0	Praseodymium	ug/mL	93.9	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-16-6	Rhodium	ug/mL	102	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-18-8	Ruthenium	ug/mL	103	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U

	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	4.82E+03	n/a	n/a	n/a	n/a	1000	n/a	J
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7782-49-2	Selenium	ug/mL	98.0	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-21-3	Silicon	ug/mL	104	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-19-9	Samarium	ug/mL	97.4	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-31-5	Tin	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	98.8	n/a	n/a	n/a	n/a	30.0	n/a	J
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-25-7	Tantalum	ug/mL	98.4	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		13494-80-9	Tellurium	ug/mL	102	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-29-1	Thorium	ug/mL	95.0	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-32-6	Titanium	ug/mL	102	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-28-0	Thallium	ug/mL	103	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-61-1	Uranium	ug/mL	95.3	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-62-2	Vanadium	ug/mL	98.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-33-7	Tungsten	ug/mL	101	<0.200	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-65-5	Yttrium	ug/mL	99.5	<2.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-66-6	Zinc	ug/mL	97.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	ICP-AES		7440-67-7	Zirconium	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102c3a	AN-102c3a	S11R000621	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	103	<41.7	4.23E+03	n/a	n/a	n/a	n/a	1.11E+03	n/a	
	AN-102c3a	AN-102c3a	S11R000621	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	98.3	8.49E-03	3.10	n/a	n/a	n/a	n/a	7.49E-03	2.601	
	AN-102c3a	AN-102c3a	S11R000621	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	88.8	86.4	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c3a	AN-102c3a	S11R000621	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.3	<20.0	2.18E+04	n/a	n/a	n/a	n/a	200	n/a	
	AN-102c3a	AN-102c3a	S11R000621	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	100	<7.00	1.28E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	AN-102c3a	AN-102c3a	S11R000621	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	103	<2.91E-04	0.168	n/a	n/a	n/a	n/a	3.15E-04	1.3	
	AN-102c3a	AN-102c3a	S11R000621	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	67.5	62.3	n/a	n/a	n/a	n/a	n/a	n/a	

	AN-102c4	AN-102c4	S12R000381	Centrifuge Liquid / hotcell			Centrifuge	None	n/a	n/a	2.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c4	AN-102c4	S12R000381	Transfer of Samples between Databases			MultiLIMS Sample Number	None	n/a	n/a	S11R000396	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102c4	AN-102c4	S12R000381	Transfer of Samples between Databases			Jar Number	None	n/a	n/a	S11R000396	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d	AN-102d	S11R000401	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<3.73E-05	1.91E-03	n/a	n/a	n/a	n/a	2.33E-05	4.59	
	AN-102d2a	AN-102d2a	S11R000407	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.56E-05	0.0660	n/a	n/a	n/a	n/a	3.16E-05	0.77	
	AN-102d2a	AN-102d2a	S11R000407	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	uCi/mL	n/a	102.01	100.36	n/a	n/a	n/a	n/a	3.5700E-05	n/a	
	AN-102d2a	AN-102d2a	S11R000407	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.12E-05	2.61E-04	n/a	n/a	n/a	n/a	2.26E-05	13.36	
	AN-102d2a	AN-102d2a	S11R000407	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	

	AN-102d2a	AN-102d2a	S11R000407	Americium Separation			Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102d2a	AN-102d2a	S11R000407	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	13.9	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102d2a	AN-102d2a	S11R000407	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	110	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-22-4	Silver	ug/mL	98.5	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<0.0300	1.38E+04	n/a	n/a	n/a	n/a	120	n/a	
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-38-2	Arsenic	ug/mL	102	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-42-8	Boron	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-39-3	Barium	ug/mL	102	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-41-7	Beryllium	ug/mL	96.9	<1.00E-03	<4.00	n/a	n/a	n/a	n/a	4.00	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-69-9	Bismuth	ug/mL	102	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-70-2	Calcium	ug/mL	102	<0.0500	358	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-45-1	Cerium	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-48-4	Cobalt	ug/mL	99.5	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-47-3	Chromium	ug/mL	99.5	<5.00E-03	132	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	20.5	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-53-1	Europium	ug/mL	98.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7439-89-6	Iron	ug/mL	99.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-09-7	Potassium	ug/mL	94.4	<0.500	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7439-91-0	Lanthanum	ug/mL	99.3	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7439-93-2	Lithium	ug/mL	105	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7439-96-5	Manganese	ug/mL	98.8	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7439-98-7	Molybdenum	ug/mL	104	<0.0200	85.8	n/a	n/a	n/a	n/a	80.0	n/a	J
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-23-5	Sodium	ug/mL	104	<0.100	2.24E+05	n/a	n/a	n/a	n/a	400	n/a	
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-02-0	Nickel	ug/mL	99.1	<0.0200	379	n/a	n/a	n/a	n/a	80.0	n/a	J
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.60E+03	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7439-92-1	Lead	ug/mL	103	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-05-3	Palladium	ug/mL	97.0	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-10-0	Praseodymium	ug/mL	102	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-17-7	Rubidium	ug/mL	102	<1.00	<4.00E+03	n/a	n/a	n/a	n/a	4.00E+03	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-16-6	Rhodium	ug/mL	98.6	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-18-8	Ruthenium	ug/mL	98.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	4.86E+03	n/a	n/a	n/a	n/a	400	n/a	
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7782-49-2	Selenium	ug/mL	101	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U

	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-21-3	Silicon	ug/mL	93.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-19-9	Samarium	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	110	n/a	n/a	n/a	n/a	12.0	n/a	J
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-25-7	Tantalum	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		13494-80-9	Tellurium	ug/mL	98.9	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-29-1	Thorium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-32-6	Titanium	ug/mL	104	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-28-0	Thallium	ug/mL	107	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-61-1	Uranium	ug/mL	103	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-65-5	Yttrium	ug/mL	99.4	<2.00E-03	<8.00	n/a	n/a	n/a	n/a	8.00	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-66-6	Zinc	ug/mL	97.8	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	ICP-AES		7440-67-7	Zirconium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102d2a	AN-102d2a	S11R000407	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.8	<9.22	4.87E+03	n/a	n/a	n/a	n/a	553	n/a	J
	AN-102d2a	AN-102d2a	S11R000407	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.7	<7.93E-03	20.0	n/a	n/a	n/a	n/a	0.0142	1.394	
	AN-102d2a	AN-102d2a	S11R000407	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.1	89.6	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.5	<20.0	1.99E+04	2.20E+04	2.10E+04	10.0	112	400	n/a	
	AN-102d2a	AN-102d2a	S11R000407	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	98.0	<7.00	1.17E+04	1.28E+04	1.22E+04	8.98	111	140	n/a	
	AN-102d2a	AN-102d2a	S11R000407	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	90.7	<7.52E-05	0.267	n/a	n/a	n/a	n/a	1.45E-04	0.5	
	AN-102d2a	AN-102d2a	S11R000407	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	66.3	33.3	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2a	AN-102d2a	S11R000407	pH of Liquids		PH	pH	unitless	n/a	n/a	>13	n/a	n/a	n/a	n/a	0.0100	n/a	E
	AN-102d2b	AN-102d2b	S11R000566	Am241,Cm243 by TRU-Spec Resin	E	CM-243/244	Curium-243/244	uCi/g	n/a	<8.87E-05	8.22E-03	n/a	n/a	n/a	n/a	5.36E-05	3.17	
	AN-102d2b	AN-102d2b	S11R000566	Am241,Cm243 by TRU-Spec Resin	E	14596-10-2	Americium-241	uCi/g	93.4	1.89E-04	0.273	n/a	n/a	n/a	n/a	6.71E-05	0.54	
	AN-102d2b	AN-102d2b	S11R000566	Am241,Cm243 by TRU-Spec Resin	E	14993-75-0T	Americium-243T	uCi/g	n/a	110.99	106.96	n/a	n/a	n/a	n/a	8.8900E-05	n/a	
	AN-102d2b	AN-102d2b	S11R000566	Am241,Cm243 by TRU-Spec Resin	E	15510-73-3	Curium-242	uCi/g	n/a	<9.69E-05	1.11E-03	n/a	n/a	n/a	n/a	2.22E-05	8.61	
	AN-102d2b	AN-102d2b	S11R000566	Americium Separation	E		Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2b	AN-102d2b	S11R000566	Americium Separation	E		Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2b	AN-102d2b	S11R000566	Americium Separation	E		Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102d2b	AN-102d2b	S11R000566	Americium Separation	E		Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2b	AN-102d2b	S11R000566	Americium Separation	E		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-22-4	Silver	ug/g	98.5	<1.73	16.8	n/a	n/a	n/a	n/a	10.8	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7429-90-5	Aluminum	ug/g	101	223	1.07E+04	n/a	n/a	n/a	n/a	65.1	n/a	B
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-38-2	Arsenic	ug/g	102	<20.7	<130	n/a	n/a	n/a	n/a	130	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-42-8	Boron	ug/g	103	16.8	<65.1	n/a	n/a	n/a	n/a	65.1	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-39-3	Barium	ug/g	102	<1.04	61.1	n/a	n/a	n/a	n/a	6.51	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-41-7	Beryllium	ug/g	96.9	<0.346	<2.17	n/a	n/a	n/a	n/a	2.17	n/a	U

	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-69-9	Bismuth	ug/g	102	<34.6	<217	n/a	n/a	n/a	n/a	217	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-70-2	Calcium	ug/g	102	488	578	n/a	n/a	n/a	n/a	108	n/a	BJ
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-45-1	Cerium	ug/g	103	<10.4	<65.1	n/a	n/a	n/a	n/a	65.1	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-48-4	Cobalt	ug/g	99.5	<3.46	<21.7	n/a	n/a	n/a	n/a	21.7	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-47-3	Chromium	ug/g	99.5	<1.73	666	n/a	n/a	n/a	n/a	10.8	n/a	
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-50-8	Copper	ug/g	101	<1.73	15.5	n/a	n/a	n/a	n/a	10.8	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-53-1	Europium	ug/g	98.3	<1.73	<10.8	n/a	n/a	n/a	n/a	10.8	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7439-89-6	Iron	ug/g	99.3	15.9	182	n/a	n/a	n/a	n/a	10.8	n/a	B
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-09-7	Potassium	ug/g	94.4	<173	1.21E+03	n/a	n/a	n/a	n/a	1.08E+03	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7439-91-0	Lanthanum	ug/g	99.3	<1.04	33.0	n/a	n/a	n/a	n/a	6.51	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7439-93-2	Lithium	ug/g	105	<1.04	<6.51	n/a	n/a	n/a	n/a	6.51	n/a	U

	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7439-95-4	Magnesium	ug/g	101	19.4	<108	n/a	n/a	n/a	n/a	108	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7439-96-5	Manganese	ug/g	98.8	<1.04	6.93E+03	n/a	n/a	n/a	n/a	6.51	n/a	
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7439-98-7	Molybdenum	ug/g	104	<6.91	61.8	n/a	n/a	n/a	n/a	43.4	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-23-5	Sodium	ug/g	104	48.3	1.60E+05	n/a	n/a	n/a	n/a	434	n/a	
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-00-8	Neodymium	ug/g	101	<3.46	58.0	n/a	n/a	n/a	n/a	21.7	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-02-0	Nickel	ug/g	99.1	<6.91	259	n/a	n/a	n/a	n/a	43.4	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7723-14-0	Phosphorus	ug/g	103	<17.3	1.27E+03	n/a	n/a	n/a	n/a	108	n/a	
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7439-92-1	Lead	ug/g	103	<17.3	124	n/a	n/a	n/a	n/a	108	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-05-3	Palladium	ug/g	97.0	<34.6	<217	n/a	n/a	n/a	n/a	217	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-10-0	Praseodymium	ug/g	102	<3.46	<21.7	n/a	n/a	n/a	n/a	21.7	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-17-7	Rubidium	ug/g	102	<346	<2.17E+03	n/a	n/a	n/a	n/a	2.17E+03	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-16-6	Rhodium	ug/g	98.6	<17.3	<108	n/a	n/a	n/a	n/a	108	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-18-8	Ruthenium	ug/g	98.7	<10.4	<65.1	n/a	n/a	n/a	n/a	65.1	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7704-34-9	Sulfur	ug/g	104	<34.6	3.37E+03	n/a	n/a	n/a	n/a	217	n/a	
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-36-0	Antimony	ug/g	101	<17.3	<108	n/a	n/a	n/a	n/a	108	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7782-49-2	Selenium	ug/g	101	<34.6	<217	n/a	n/a	n/a	n/a	217	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-21-3	Silicon	ug/g	93.7	<10.4	151	n/a	n/a	n/a	n/a	65.1	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-19-9	Samarium	ug/g	104	<6.91	<43.4	n/a	n/a	n/a	n/a	43.4	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-24-6	Strontium	ug/g	100	2.02	2.95E+03	n/a	n/a	n/a	n/a	6.51	n/a	
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-25-7	Tantalum	ug/g	101	<17.3	<108	n/a	n/a	n/a	n/a	108	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	13494-80-9	Tellurium	ug/g	98.9	<34.6	<217	n/a	n/a	n/a	n/a	217	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-29-1	Thorium	ug/g	101	<17.3	<108	n/a	n/a	n/a	n/a	108	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-32-6	Titanium	ug/g	104	<1.73	<10.8	n/a	n/a	n/a	n/a	10.8	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-28-0	Thallium	ug/g	107	<34.6	<217	n/a	n/a	n/a	n/a	217	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-61-1	Uranium	ug/g	103	<34.6	<217	n/a	n/a	n/a	n/a	217	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-62-2	Vanadium	ug/g	100	<1.73	<10.8	n/a	n/a	n/a	n/a	10.8	n/a	U

	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-65-5	Yttrium	ug/g	99.4	<0.691	<4.34	n/a	n/a	n/a	n/a	4.34	n/a	U
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-66-6	Zinc	ug/g	97.8	3.01	20.6	n/a	n/a	n/a	n/a	10.8	n/a	BJ
	AN-102d2b	AN-102d2b	S11R000566	ICP-AES	E	7440-67-7	Zirconium	ug/g	100	<1.73	29.0	n/a	n/a	n/a	n/a	10.8	n/a	J
	AN-102d2b	AN-102d2b	S11R000566	STRONTIUM-90 SEPARATION	E		RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2b	AN-102d2b	S11R000566	Sr-89/90 by GPC	E	SR-89/90	Strontium-89/90	uCi/g	96.2	<0.0681	125	n/a	n/a	n/a	n/a	0.0153	0.571	
	AN-102d2b	AN-102d2b	S11R000566	Sr-89/90 by GPC	E	7440-24-6C	Strontium-C	%	n/a	89.3	86.8	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2b	AN-102d2b	S11R000566	TC-99 SEPARATION	E		RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2b	AN-102d2b	S11R000566	Technetium - Liq. Scint.	E	14133-76-7	Technetium-99	uCi/g	97.4	<1.79E-03	0.0937	n/a	n/a	n/a	n/a	6.22E-04	2.6	
	AN-102d2b	AN-102d2b	S11R000566	Technetium - Liq. Scint.	E	14133-76-7T	Technetium-99T	%	n/a	67.4	67.7	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2s	AN-102d2s	S11R000557	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	3.41	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102d2s	AN-102d2s	S11R000557	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	42.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d2s	AN-102d2s	S11R000557	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	99.5	<20.0	1.85E+04	n/a	n/a	n/a	n/a	154	n/a	
	AN-102d2s	AN-102d2s	S11R000557	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	98.7	<7.00	1.03E+04	n/a	n/a	n/a	n/a	53.8	n/a	
	AN-102d3	AN-102d3	S11R000404	Centrifuge Liquid / hotcell			Centrifuge	CONES	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3L	AN-102d3L	S12R000153	Am241,Cm243 by TRU-Spec Resin	E	CM-243/244	Curium-243/244	uCi/mL	n/a	<5.49E-05	1.34E-03	1.50E-03	1.42E-03	11.3	n/a	2.28E-05	7.96	
	AN-102d3L	AN-102d3L	S12R000153	Am241,Cm243 by TRU-Spec Resin	E	14596-10-2	Americium-241	uCi/mL	98.5	8.02E-05	0.0445	0.0472	0.0458	5.89	n/a	6.23E-05	1.28	
	AN-102d3L	AN-102d3L	S12R000153	Am241,Cm243 by TRU-Spec Resin	E	14993-75-0T	Americium-243T	uCi/mL	n/a	102.65	105.67	108.51	n/a	n/a	n/a	5.4800E-05	n/a	
	AN-102d3L	AN-102d3L	S12R000153	Am241,Cm243 by TRU-Spec Resin	E	15510-73-3	Curium-242	uCi/mL	n/a	<2.02E-05	1.64E-04	1.30E-04	1.47E-04	23.1	n/a	2.33E-05	23.54	
	AN-102d3L	AN-102d3L	S12R000153	Americium Separation	E		Tracer Book No.	mL	n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	AN-102d3L	AN-102d3L	S12R000153	Americium Separation	E		Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	AN-102d3L	AN-102d3L	S12R000153	Americium Separation	E		Sample Volume	mL	n/a	0.100	0.100	0.100	0.100	0.0	n/a	n/a	n/a	Q
	AN-102d3L	AN-102d3L	S12R000153	Americium Separation	E		Standard/Spike Book No.	mL	n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	AN-102d3L	AN-102d3L	S12R000153	Americium Separation	E		Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	AN-102d3S	AN-102d3S	S12R000154	Am241,Cm243 by TRU-Spec Resin	F	CM-243/244	Curium-243/244	uCi/g	n/a	<2.42E-05	5.86E-03	5.99E-03	5.92E-03	2.19	n/a	2.79E-05	2.50	
	AN-102d3S	AN-102d3S	S12R000154	Am241,Cm243 by TRU-Spec Resin	F	14596-10-2	Americium-241	uCi/g	94.2	1.20E-04	0.185	0.213	0.199	14.1	n/a	2.63E-05	0.42	
	AN-102d3S	AN-102d3S	S12R000154	Am241,Cm243 by TRU-Spec Resin	F	14993-75-0T	Americium-243T	%	n/a	100.24	118.65	112.12	n/a	n/a	n/a	n/a	n/a	
	AN-102d3S	AN-102d3S	S12R000154	Am241,Cm243 by TRU-Spec Resin	F	15510-73-3	Curium-242	uCi/g	n/a	<9.94E-06	6.94E-04	8.75E-04	7.84E-04	23.1	n/a	1.81E-05	7.30	c
	AN-102d3S	AN-102d3S	S12R000154	Americium Separation	F		Tracer Book No.	mL	n/a	112B59	112B59	112B59	n/a	n/a	n/a	n/a	n/a	
	AN-102d3S	AN-102d3S	S12R000154	Americium Separation	F		Tracer Volume	mL	n/a	0.250	0.250	0.250	0.250	0.0	n/a	n/a	n/a	
	AN-102d3S	AN-102d3S	S12R000154	Americium Separation	F		Sample Volume	mL	n/a	0.500	0.500	0.500	0.500	0.0	n/a	n/a	n/a	Q
	AN-102d3S	AN-102d3S	S12R000154	Americium Separation	F		Standard/Spike Book No.	mL	n/a	N/A	N/A	N/A	n/a	n/a	n/a	n/a	n/a	
	AN-102d3S	AN-102d3S	S12R000154	Americium Separation	F		Standard/Spike Volume	mL	n/a	0.0	0.0	0.0	0.0	0.0	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<5.47E-06	1.98E-03	n/a	n/a	n/a	n/a	2.27E-06	2.06	
	AN-102d3a	AN-102d3a	S11R000408	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	1.30E-05	0.0617	n/a	n/a	n/a	n/a	5.76E-06	0.35	
	AN-102d3a	AN-102d3a	S11R000408	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	92.770	103.63	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.17E-06	1.94E-04	n/a	n/a	n/a	n/a	3.73E-06	6.27	
	AN-102d3a	AN-102d3a	S11R000408	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	Americium Separation			Tracer Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	

	AN-102d3a	AN-102d3a	S11R000408	Americium Separation			Sample Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102d3a	AN-102d3a	S11R000408	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-22-4	Silver	ug/mL	95.3	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7429-90-5	Aluminum	ug/mL	95.8	<0.0300	1.39E+04	n/a	n/a	n/a	n/a	300	n/a	
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-38-2	Arsenic	ug/mL	100	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-42-8	Boron	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-39-3	Barium	ug/mL	99.4	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-41-7	Beryllium	ug/mL	95.4	<1.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-69-9	Bismuth	ug/mL	99.7	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-70-2	Calcium	ug/mL	110	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-43-9	Cadmium	ug/mL	99.0	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-45-1	Cerium	ug/mL	101	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-48-4	Cobalt	ug/mL	99.6	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-47-3	Chromium	ug/mL	99.1	<5.00E-03	139	n/a	n/a	n/a	n/a	50.0	n/a	J
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-53-1	Europium	ug/mL	97.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-09-7	Potassium	ug/mL	99.1	<0.500	<5.00E+03	n/a	n/a	n/a	n/a	5.00E+03	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7439-91-0	Lanthanum	ug/mL	100	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7439-93-2	Lithium	ug/mL	102	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7439-95-4	Magnesium	ug/mL	103	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7439-96-5	Manganese	ug/mL	98.5	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7439-98-7	Molybdenum	ug/mL	100	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-23-5	Sodium	ug/mL	100	<0.100	2.36E+05	n/a	n/a	n/a	n/a	1000	n/a	
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-00-8	Neodymium	ug/mL	92.0	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-02-0	Nickel	ug/mL	100	<0.0200	497	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-30-1	Niobium	ug/mL	99.9	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.28E+03	n/a	n/a	n/a	n/a	500	n/a	J
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7439-92-1	Lead	ug/mL	104	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-05-3	Palladium	ug/mL	107	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-10-0	Praseodymium	ug/mL	93.9	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-16-6	Rhodium	ug/mL	102	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U

	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-18-8	Ruthenium	ug/mL	103	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	5.44E+03	n/a	n/a	n/a	n/a	1000	n/a	J
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7782-49-2	Selenium	ug/mL	98.0	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U

	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-21-3	Silicon	ug/mL	104	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-19-9	Samarium	ug/mL	97.4	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-31-5	Tin	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	94.1	n/a	n/a	n/a	n/a	30.0	n/a	J
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-25-7	Tantalum	ug/mL	98.4	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		13494-80-9	Tellurium	ug/mL	102	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-29-1	Thorium	ug/mL	95.0	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-32-6	Titanium	ug/mL	102	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-28-0	Thallium	ug/mL	103	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-61-1	Uranium	ug/mL	95.3	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-62-2	Vanadium	ug/mL	98.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-33-7	Tungsten	ug/mL	101	<0.200	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-65-5	Yttrium	ug/mL	99.5	<2.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-66-6	Zinc	ug/mL	97.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	ICP-AES		7440-67-7	Zirconium	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102d3a	AN-102d3a	S11R000408	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	103	<41.7	5.18E+03	5.32E+03	5.25E+03	2.63	94.7	1.11E+03	n/a	
	AN-102d3a	AN-102d3a	S11R000408	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	98.3	8.49E-03	12.5	n/a	n/a	n/a	n/a	7.44E-03	1.284	
	AN-102d3a	AN-102d3a	S11R000408	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	88.8	87.4	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.3	<20.0	2.31E+04	n/a	n/a	n/a	n/a	200	n/a	
	AN-102d3a	AN-102d3a	S11R000408	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	100	<7.00	1.33E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	AN-102d3a	AN-102d3a	S11R000408	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	103	<2.91E-04	0.176	0.185	0.181	5.46	n/a	2.96E-04	1.3	
	AN-102d3a	AN-102d3a	S11R000408	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	67.5	66.3	62.7	n/a	n/a	n/a	n/a	n/a	
	AN-102d3a	AN-102d3a	S11R000408	pH of Liquids		PH	pH	unitless	n/a	n/a	>13	n/a	n/a	n/a	n/a	0.0100	n/a	E
	AN-102d3b	AN-102d3b	S11R000567	Am241,Cm243 by TRU-Spec Resin	A	CM-243/244	Curium-243/244	uCi/g	n/a	<9.55E-04	9.68E-03	n/a	n/a	n/a	n/a	7.00E-04	11.25	
	AN-102d3b	AN-102d3b	S11R000567	Am241,Cm243 by TRU-Spec Resin	A	14596-10-2	Americium-241	uCi/g	97.1	<7.59E-04	0.283	n/a	n/a	n/a	n/a	7.93E-04	1.92	
	AN-102d3b	AN-102d3b	S11R000567	Am241,Cm243 by TRU-Spec Resin	A	14993-75-0T	Americium-243T	%	n/a	98.720	100.53	n/a	n/a	n/a	n/a	6.6600E-04	n/a	
	AN-102d3b	AN-102d3b	S11R000567	Am241,Cm243 by TRU-Spec Resin	A	15510-73-3	Curium-242	uCi/g	n/a	<2.75E-04	8.94E-04	n/a	n/a	n/a	n/a	3.02E-04	37.50	J
	AN-102d3b	AN-102d3b	S11R000567	Americium Separation	A		Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3b	AN-102d3b	S11R000567	Americium Separation	A		Tracer Volume	mL	n/a	0.200	0.200	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3b	AN-102d3b	S11R000567	Americium Separation	A		Sample Volume	mL	n/a	1.00	1.00	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102d3b	AN-102d3b	S11R000567	Americium Separation	A		Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3b	AN-102d3b	S11R000567	Americium Separation	A		Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7429-90-5	Aluminum	ug/g	81.1	<0.0300	1.22E+04	n/a	n/a	n/a	n/a	801	n/a	
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7440-39-3	Barium	ug/g	88.3	<3.00E-03	118	n/a	n/a	n/a	n/a	80.1	n/a	J
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7440-47-3	Chromium	ug/g	84.6	6.30E-03	743	n/a	n/a	n/a	n/a	133	n/a	BJ
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7439-89-6	Iron	ug/g	85.3	<5.00E-03	224	n/a	n/a	n/a	n/a	133	n/a	J

	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7439-96-5	Manganese	ug/g	83.5	<3.00E-03	7.60E+03	n/a	n/a	n/a	n/a	80.1	n/a	
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7440-23-5	Sodium	ug/g	91.9	<0.100	1.60E+05	n/a	n/a	n/a	n/a	2.67E+03	n/a	
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7440-02-0	Nickel	ug/g	84.5	<0.0200	571	n/a	n/a	n/a	n/a	534	n/a	Jb
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7723-14-0	Phosphorus	ug/g	82.8	<0.0500	1.83E+03	n/a	n/a	n/a	n/a	1.33E+03	n/a	J
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7704-34-9	Sulfur	ug/g	80.6	<0.100	<2.67E+03	n/a	n/a	n/a	n/a	2.67E+03	n/a	Ub
	AN-102d3b	AN-102d3b	S11R000567	ICP-AES	A	7440-24-6	Strontium	ug/g	90.0	<3.00E-03	7.40E+03	n/a	n/a	n/a	n/a	80.1	n/a	
	AN-102d3b	AN-102d3b	S11R000567	STRONTIUM-90 SEPARATION	A		RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3b	AN-102d3b	S11R000567	Sr-89/90 by GPC	A	SR-89/90	Strontium-89/90	uCi/g	98.9	<3.66E-04	283	n/a	n/a	n/a	n/a	0.0296	0.599	
	AN-102d3b	AN-102d3b	S11R000567	Sr-89/90 by GPC	A	7440-24-6C	Strontium-C	%	n/a	88.0	86.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3b	AN-102d3b	S11R000567	TC-99 SEPARATION	A		RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3b	AN-102d3b	S11R000567	Technetium - Liq. Scint.	A	14133-76-7	Technetium-99	uCi/g	102	<9.40E-04	0.108	n/a	n/a	n/a	n/a	8.28E-04	2.7	
	AN-102d3b	AN-102d3b	S11R000567	Technetium - Liq. Scint.	A	14133-76-7T	Technetium-99T	%	n/a	65.4	65.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d3s Composite (2)	AN-102d3s Composite (2)	S11R000768	% Water by TGA		%WATER	Percent water	%	97.4	n/a	50.0	45.6	47.8	9.17	n/a	0.0100	n/a	
	AN-102d3s Composite (2)	AN-102d3s Composite (2)	S11R000768	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/g	102	<20.0	1.84E+04	n/a	n/a	n/a	n/a	113	n/a	
	AN-102d3s Composite (2)	AN-102d3s Composite (2)	S11R000768	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/g	101	<7.00	1.03E+04	n/a	n/a	n/a	n/a	39.7	n/a	
	AN-102d4	AN-102d4	S12R000382	Centrifuge Liquid / hotcell			Centrifuge	None	n/a	n/a	2.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d4	AN-102d4	S12R000382	Transfer of Samples between Databases			MultiLIMS Sample Number	None	n/a	n/a	S11R000401	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102d4	AN-102d4	S12R000382	Transfer of Samples between Databases			Jar Number	None	n/a	n/a	S11R000401	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e	AN-102e	S11R000412	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<3.73E-05	1.81E-03	n/a	n/a	n/a	n/a	3.13E-05	4.65	
	AN-102e2a	AN-102e2a	S11R000594	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.56E-05	0.0593	n/a	n/a	n/a	n/a	4.13E-05	0.80	
	AN-102e2a	AN-102e2a	S11R000594	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	uCi/mL	n/a	102.01	102.18	n/a	n/a	n/a	n/a	3.7100E-05	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.12E-05	2.28E-04	n/a	n/a	n/a	n/a	1.21E-05	14.14	
	AN-102e2a	AN-102e2a	S11R000594	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Americium Separation			Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102e2a	AN-102e2a	S11R000594	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	13.2	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	110	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-22-4	Silver	ug/mL	98.5	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<0.0300	1.39E+04	n/a	n/a	n/a	n/a	120	n/a	
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-38-2	Arsenic	ug/mL	102	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-42-8	Boron	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-39-3	Barium	ug/mL	102	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-41-7	Beryllium	ug/mL	96.9	<1.00E-03	<4.00	n/a	n/a	n/a	n/a	4.00	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-69-9	Bismuth	ug/mL	102	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-70-2	Calcium	ug/mL	102	<0.0500	414	n/a	n/a	n/a	n/a	200	n/a	J

	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-45-1	Cerium	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-48-4	Cobalt	ug/mL	99.5	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-47-3	Chromium	ug/mL	99.5	<5.00E-03	137	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	25.9	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-53-1	Europium	ug/mL	98.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7439-89-6	Iron	ug/mL	99.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-09-7	Potassium	ug/mL	94.4	<0.500	2.15E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	J
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7439-91-0	Lanthanum	ug/mL	99.3	<3.00E-03	15.7	n/a	n/a	n/a	n/a	12.0	n/a	J
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7439-93-2	Lithium	ug/mL	105	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7439-96-5	Manganese	ug/mL	98.8	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7439-98-7	Molybdenum	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-23-5	Sodium	ug/mL	104	<0.100	2.30E+05	n/a	n/a	n/a	n/a	400	n/a	
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-02-0	Nickel	ug/mL	99.1	<0.0200	428	n/a	n/a	n/a	n/a	80.0	n/a	J
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.59E+03	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7439-92-1	Lead	ug/mL	103	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U

	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-05-3	Palladium	ug/mL	97.0	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-10-0	Praseodymium	ug/mL	102	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-17-7	Rubidium	ug/mL	102	<1.00	<4.00E+03	n/a	n/a	n/a	n/a	4.00E+03	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-16-6	Rhodium	ug/mL	98.6	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-18-8	Ruthenium	ug/mL	98.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	4.92E+03	n/a	n/a	n/a	n/a	400	n/a	
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7782-49-2	Selenium	ug/mL	101	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-21-3	Silicon	ug/mL	93.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-19-9	Samarium	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	104	n/a	n/a	n/a	n/a	12.0	n/a	J
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-25-7	Tantalum	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		13494-80-9	Tellurium	ug/mL	98.9	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-29-1	Thorium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-32-6	Titanium	ug/mL	104	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-28-0	Thallium	ug/mL	107	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-61-1	Uranium	ug/mL	103	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-65-5	Yttrium	ug/mL	99.4	<2.00E-03	<8.00	n/a	n/a	n/a	n/a	8.00	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-66-6	Zinc	ug/mL	97.8	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U

	AN-102e2a	AN-102e2a	S11R000594	ICP-AES		7440-67-7	Zirconium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102e2a	AN-102e2a	S11R000594	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.8	<9.22	5.40E+03	n/a	n/a	n/a	n/a	553	n/a	J
	AN-102e2a	AN-102e2a	S11R000594	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.7	<7.93E-03	17.0	n/a	n/a	n/a	n/a	0.0141	1.508	
	AN-102e2a	AN-102e2a	S11R000594	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.1	89.8	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e2a	AN-102e2a	S11R000594	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	97.2	<20.0	2.51E+04	2.44E+04	2.48E+04	2.83	n/a	400	n/a	
	AN-102e2a	AN-102e2a	S11R000594	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	97.9	<7.00	1.48E+04	1.41E+04	1.44E+04	4.84	n/a	140	n/a	
	AN-102e2a	AN-102e2a	S11R000594	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	90.7	<7.52E-05	0.197	n/a	n/a	n/a	n/a	1.07E-04	0.5	
	AN-102e2a	AN-102e2a	S11R000594	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	66.3	46.1	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3	AN-102e3	S11R000415	Centrifuge Liquid / hotcell			Centrifuge	CONES	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<5.47E-06	2.12E-03	n/a	n/a	n/a	n/a	2.25E-06	1.98	
	AN-102e3a	AN-102e3a	S11R000624	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	1.30E-05	0.0630	n/a	n/a	n/a	n/a	5.97E-06	0.34	
	AN-102e3a	AN-102e3a	S11R000624	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	92.770	104.51	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.17E-06	1.96E-04	n/a	n/a	n/a	n/a	3.12E-06	6.17	
	AN-102e3a	AN-102e3a	S11R000624	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	Americium Separation			Tracer Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	Americium Separation			Sample Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102e3a	AN-102e3a	S11R000624	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-22-4	Silver	ug/mL	95.3	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7429-90-5	Aluminum	ug/mL	95.8	<0.0300	1.40E+04	n/a	n/a	n/a	n/a	300	n/a	
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-38-2	Arsenic	ug/mL	100	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-42-8	Boron	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-39-3	Barium	ug/mL	99.4	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-41-7	Beryllium	ug/mL	95.4	<1.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-69-9	Bismuth	ug/mL	99.7	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-70-2	Calcium	ug/mL	110	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-43-9	Cadmium	ug/mL	99.0	<5.00E-03	73.5	n/a	n/a	n/a	n/a	50.0	n/a	J
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-45-1	Cerium	ug/mL	101	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-48-4	Cobalt	ug/mL	99.6	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-47-3	Chromium	ug/mL	99.1	<5.00E-03	130	n/a	n/a	n/a	n/a	50.0	n/a	J
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-53-1	Europium	ug/mL	97.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-09-7	Potassium	ug/mL	99.1	<0.500	<5.00E+03	n/a	n/a	n/a	n/a	5.00E+03	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7439-91-0	Lanthanum	ug/mL	100	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7439-93-2	Lithium	ug/mL	102	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U

	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7439-95-4	Magnesium	ug/mL	103	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7439-96-5	Manganese	ug/mL	98.5	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7439-98-7	Molybdenum	ug/mL	100	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-23-5	Sodium	ug/mL	100	<0.100	2.45E+05	n/a	n/a	n/a	n/a	1000	n/a	
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-00-8	Neodymium	ug/mL	92.0	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-02-0	Nickel	ug/mL	100	<0.0200	525	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-30-1	Niobium	ug/mL	99.9	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.33E+03	n/a	n/a	n/a	n/a	500	n/a	J
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7439-92-1	Lead	ug/mL	104	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-05-3	Palladium	ug/mL	107	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-10-0	Praseodymium	ug/mL	93.9	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-16-6	Rhodium	ug/mL	102	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-18-8	Ruthenium	ug/mL	103	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	5.41E+03	n/a	n/a	n/a	n/a	1000	n/a	J
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7782-49-2	Selenium	ug/mL	98.0	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-21-3	Silicon	ug/mL	104	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-19-9	Samarium	ug/mL	97.4	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-31-5	Tin	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	88.4	n/a	n/a	n/a	n/a	30.0	n/a	J
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-25-7	Tantalum	ug/mL	98.4	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		13494-80-9	Tellurium	ug/mL	102	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-29-1	Thorium	ug/mL	95.0	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-32-6	Titanium	ug/mL	102	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-28-0	Thallium	ug/mL	103	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-61-1	Uranium	ug/mL	95.3	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-62-2	Vanadium	ug/mL	98.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-33-7	Tungsten	ug/mL	101	<0.200	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-65-5	Yttrium	ug/mL	99.5	<2.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-66-6	Zinc	ug/mL	97.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	ICP-AES		7440-67-7	Zirconium	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102e3a	AN-102e3a	S11R000624	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	103	<41.7	4.27E+03	n/a	n/a	n/a	n/a	1.11E+03	n/a	
	AN-102e3a	AN-102e3a	S11R000624	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	98.3	8.49E-03	12.2	n/a	n/a	n/a	n/a	7.29E-03	1.285	
	AN-102e3a	AN-102e3a	S11R000624	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	88.8	88.7	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e3a	AN-102e3a	S11R000624	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	101	<20.0	2.36E+04	2.36E+04	2.36E+04	0.0	98.8	200	n/a	
	AN-102e3a	AN-102e3a	S11R000624	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.43E+04	1.41E+04	1.42E+04	1.41	96.8	70.0	n/a	

	AN-102e3a	AN-102e3a	S11R000624	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	103	<2.91E-04	0.162	n/a	n/a	n/a	n/a	2.86E-04	1.3	

	AN-102e3a	AN-102e3a	S11R000624	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	67.5	68.7	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e4	AN-102e4	S12R000383	Centrifuge Liquid / hotcell			Centrifuge	None	n/a	n/a	2.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e4	AN-102e4	S12R000383	Transfer of Samples between Databases			MultiLIMS Sample Number	None	n/a	n/a	S11R000412	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102e4	AN-102e4	S12R000383	Transfer of Samples between Databases			Jar Number	None	n/a	n/a	S11R000412	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f	AN-102f	S11R000417	Hold for Project Coordinator Attention			Project Coord Review	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<3.73E-05	1.64E-03	n/a	n/a	n/a	n/a	2.19E-05	4.81	
	AN-102f2a	AN-102f2a	S11R000597	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	5.56E-05	0.0583	n/a	n/a	n/a	n/a	3.07E-05	0.79	
	AN-102f2a	AN-102f2a	S11R000597	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	uCi/mL	n/a	102.01	106.19	n/a	n/a	n/a	n/a	3.8700E-05	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.12E-05	2.43E-04	n/a	n/a	n/a	n/a	1.15E-05	13.36	
	AN-102f2a	AN-102f2a	S11R000597	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Americium Separation			Sample Volume	mL	n/a	0.100	0.100	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102f2a	AN-102f2a	S11R000597	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	13.2	n/a	n/a	n/a	n/a	0.100	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	90.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-22-4	Silver	ug/mL	98.5	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<0.0300	9.77E+03	n/a	n/a	n/a	n/a	120	n/a	
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-38-2	Arsenic	ug/mL	102	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-42-8	Boron	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-39-3	Barium	ug/mL	102	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-41-7	Beryllium	ug/mL	96.9	<1.00E-03	<4.00	n/a	n/a	n/a	n/a	4.00	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-69-9	Bismuth	ug/mL	102	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-70-2	Calcium	ug/mL	102	<0.0500	268	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-45-1	Cerium	ug/mL	103	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-48-4	Cobalt	ug/mL	99.5	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-47-3	Chromium	ug/mL	99.5	<5.00E-03	94.9	n/a	n/a	n/a	n/a	20.0	n/a	J
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-53-1	Europium	ug/mL	98.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7439-89-6	Iron	ug/mL	99.3	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-09-7	Potassium	ug/mL	94.4	<0.500	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7439-91-0	Lanthanum	ug/mL	99.3	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7439-93-2	Lithium	ug/mL	105	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7439-95-4	Magnesium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7439-96-5	Manganese	ug/mL	98.8	<3.00E-03	<12.0	n/a	n/a	n/a	n/a	12.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7439-98-7	Molybdenum	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U

	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-23-5	Sodium	ug/mL	104	<0.100	1.66E+05	n/a	n/a	n/a	n/a	400	n/a	
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-02-0	Nickel	ug/mL	99.1	<0.0200	319	n/a	n/a	n/a	n/a	80.0	n/a	J
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.17E+03	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7439-92-1	Lead	ug/mL	103	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-05-3	Palladium	ug/mL	97.0	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-10-0	Praseodymium	ug/mL	102	<0.0100	<40.0	n/a	n/a	n/a	n/a	40.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-17-7	Rubidium	ug/mL	102	<1.00	<4.00E+03	n/a	n/a	n/a	n/a	4.00E+03	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-16-6	Rhodium	ug/mL	98.6	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-18-8	Ruthenium	ug/mL	98.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	3.49E+03	n/a	n/a	n/a	n/a	400	n/a	J
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7782-49-2	Selenium	ug/mL	101	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-21-3	Silicon	ug/mL	93.7	<0.0300	<120	n/a	n/a	n/a	n/a	120	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-19-9	Samarium	ug/mL	104	<0.0200	<80.0	n/a	n/a	n/a	n/a	80.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	82.9	n/a	n/a	n/a	n/a	12.0	n/a	J
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-25-7	Tantalum	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		13494-80-9	Tellurium	ug/mL	98.9	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-29-1	Thorium	ug/mL	101	<0.0500	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-32-6	Titanium	ug/mL	104	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-28-0	Thallium	ug/mL	107	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-61-1	Uranium	ug/mL	103	<0.100	<400	n/a	n/a	n/a	n/a	400	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-65-5	Yttrium	ug/mL	99.4	<2.00E-03	<8.00	n/a	n/a	n/a	n/a	8.00	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-66-6	Zinc	ug/mL	97.8	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	ICP-AES		7440-67-7	Zirconium	ug/mL	100	<5.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f2a	AN-102f2a	S11R000597	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.8	<9.22	5.17E+03	n/a	n/a	n/a	n/a	553	n/a	J
	AN-102f2a	AN-102f2a	S11R000597	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.7	<7.93E-03	9.42	n/a	n/a	n/a	n/a	0.0145	2.063	
	AN-102f2a	AN-102f2a	S11R000597	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.1	87.1	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f2a	AN-102f2a	S11R000597	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	97.2	<20.0	2.43E+04	n/a	n/a	n/a	n/a	400	n/a	
	AN-102f2a	AN-102f2a	S11R000597	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	97.9	<7.00	1.40E+04	n/a	n/a	n/a	n/a	140	n/a	
	AN-102f2a	AN-102f2a	S11R000597	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	90.7	<7.52E-05	0.164	n/a	n/a	n/a	n/a	8.71E-05	0.5	
	AN-102f2a	AN-102f2a	S11R000597	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	66.3	56.1	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3	AN-102f3	S11R000420	Centrifuge Liquid / hotcell			Centrifuge	CONES	n/a	n/a	1.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<5.47E-06	2.09E-03	n/a	n/a	n/a	n/a	5.36E-06	1.98	
	AN-102f3a	AN-102f3a	S11R000627	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.8	1.30E-05	0.0621	n/a	n/a	n/a	n/a	6.52E-06	0.34	

	AN-102f3a	AN-102f3a	S11R000627	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	92.770	104.65	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<2.17E-06	1.92E-04	n/a	n/a	n/a	n/a	1.99E-06	6.21	
	AN-102f3a	AN-102f3a	S11R000627	Americium Separation			Tracer Book No.		n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	Americium Separation			Tracer Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	Americium Separation			Sample Volume	mL	n/a	0.500	0.500	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN-102f3a	AN-102f3a	S11R000627	Americium Separation			Standard/Spike Book No.		n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-22-4	Silver	ug/mL	95.3	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7429-90-5	Aluminum	ug/mL	95.8	<0.0300	1.48E+04	n/a	n/a	n/a	n/a	300	n/a	
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-38-2	Arsenic	ug/mL	100	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-42-8	Boron	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-39-3	Barium	ug/mL	99.4	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-41-7	Beryllium	ug/mL	95.4	<1.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-69-9	Bismuth	ug/mL	99.7	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-70-2	Calcium	ug/mL	110	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-43-9	Cadmium	ug/mL	99.0	<5.00E-03	61.1	n/a	n/a	n/a	n/a	50.0	n/a	J
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-45-1	Cerium	ug/mL	101	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-48-4	Cobalt	ug/mL	99.6	<0.0100	132	n/a	n/a	n/a	n/a	100	n/a	J
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-47-3	Chromium	ug/mL	99.1	<5.00E-03	132	n/a	n/a	n/a	n/a	50.0	n/a	J
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-50-8	Copper	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-53-1	Europium	ug/mL	97.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-09-7	Potassium	ug/mL	99.1	<0.500	<5.00E+03	n/a	n/a	n/a	n/a	5.00E+03	n/a	U

	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7439-91-0	Lanthanum	ug/mL	100	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7439-93-2	Lithium	ug/mL	102	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7439-95-4	Magnesium	ug/mL	103	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7439-96-5	Manganese	ug/mL	98.5	<3.00E-03	<30.0	n/a	n/a	n/a	n/a	30.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7439-98-7	Molybdenum	ug/mL	100	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-23-5	Sodium	ug/mL	100	<0.100	2.55E+05	n/a	n/a	n/a	n/a	1000	n/a	
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-00-8	Neodymium	ug/mL	92.0	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-02-0	Nickel	ug/mL	100	<0.0200	474	n/a	n/a	n/a	n/a	200	n/a	J
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-30-1	Niobium	ug/mL	99.9	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7723-14-0	Phosphorus	ug/mL	103	<0.0500	1.45E+03	n/a	n/a	n/a	n/a	500	n/a	J
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7439-92-1	Lead	ug/mL	104	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-05-3	Palladium	ug/mL	107	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-10-0	Praseodymium	ug/mL	93.9	<0.0100	<100	n/a	n/a	n/a	n/a	100	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-16-6	Rhodium	ug/mL	102	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U

	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-18-8	Ruthenium	ug/mL	103	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7704-34-9	Sulfur	ug/mL	104	<0.100	5.53E+03	n/a	n/a	n/a	n/a	1000	n/a	J
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-36-0	Antimony	ug/mL	101	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7782-49-2	Selenium	ug/mL	98.0	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-21-3	Silicon	ug/mL	104	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-19-9	Samarium	ug/mL	97.4	<0.0200	<200	n/a	n/a	n/a	n/a	200	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-31-5	Tin	ug/mL	102	<0.0300	<300	n/a	n/a	n/a	n/a	300	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-24-6	Strontium	ug/mL	100	<3.00E-03	104	n/a	n/a	n/a	n/a	30.0	n/a	J
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-25-7	Tantalum	ug/mL	98.4	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		13494-80-9	Tellurium	ug/mL	102	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-29-1	Thorium	ug/mL	95.0	<0.0500	<500	n/a	n/a	n/a	n/a	500	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-32-6	Titanium	ug/mL	102	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-28-0	Thallium	ug/mL	103	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-61-1	Uranium	ug/mL	95.3	<0.100	<1.00E+03	n/a	n/a	n/a	n/a	1000	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-62-2	Vanadium	ug/mL	98.8	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-33-7	Tungsten	ug/mL	101	<0.200	<2.00E+03	n/a	n/a	n/a	n/a	2.00E+03	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-65-5	Yttrium	ug/mL	99.5	<2.00E-03	<20.0	n/a	n/a	n/a	n/a	20.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-66-6	Zinc	ug/mL	97.6	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	ICP-AES		7440-67-7	Zirconium	ug/mL	101	<5.00E-03	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN-102f3a	AN-102f3a	S11R000627	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	103	<41.7	4.85E+03	n/a	n/a	n/a	n/a	1.11E+03	n/a	
	AN-102f3a	AN-102f3a	S11R000627	STRONTIUM-90 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	98.3	8.49E-03	7.10	n/a	n/a	n/a	n/a	7.21E-03	1.677	
	AN-102f3a	AN-102f3a	S11R000627	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	88.8	89.4	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	TC-99 SEPARATION			RadChem Separation		n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f3a	AN-102f3a	S11R000627	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	101	<20.0	2.28E+04	n/a	n/a	n/a	n/a	200	n/a	
	AN-102f3a	AN-102f3a	S11R000627	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.31E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	AN-102f3a	AN-102f3a	S11R000627	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	103	<2.91E-04	0.156	n/a	n/a	n/a	n/a	2.76E-04	1.3	
	AN-102f3a	AN-102f3a	S11R000627	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	67.5	71.1	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f4	AN-102f4	S12R000384	Centrifuge Liquid / hotcell			Centrifuge	None	n/a	n/a	2.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f4	AN-102f4	S12R000384	Transfer of Samples between Databases			MultiLIMS Sample Number	None	n/a	n/a	S11R000417	n/a	n/a	n/a	n/a	n/a	n/a	
	AN-102f4	AN-102f4	S12R000384	Transfer of Samples between Databases			Jar Number	None	n/a	n/a	S11R000417	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	3.02E-03	n/a	n/a	n/a	n/a	1.09E-05	2.25	
	AN102BL1d1	AN102BL1d1	S12R000439	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0945	n/a	n/a	n/a	n/a	1.36E-05	0.38	
	AN102BL1d1	AN102BL1d1	S12R000439	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	116.00	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	3.15E-04	n/a	n/a	n/a	n/a	6.73E-06	6.62	
	AN102BL1d1	AN102BL1d1	S12R000439	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q

	AN102BL1d1	AN102BL1d1	S12R000439	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.20	n/a	n/a	n/a	n/a	0.100	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	208	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.38E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	447	n/a	n/a	n/a	n/a	200	n/a	J
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	61.0	n/a	n/a	n/a	n/a	2.50	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	248	n/a	n/a	n/a	n/a	2.50	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	25.7	n/a	n/a	n/a	n/a	5.00	n/a	J
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	32.4	n/a	n/a	n/a	n/a	25.0	n/a	J
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.40E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	9.25	n/a	n/a	n/a	n/a	2.50	n/a	J
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	51.9	n/a	n/a	n/a	n/a	2.50	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.43E+05	n/a	n/a	n/a	n/a	100	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	14.1	n/a	n/a	n/a	n/a	7.50	n/a	J
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	432	n/a	n/a	n/a	n/a	2.50	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.72E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	177	n/a	n/a	n/a	n/a	15.0	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	19.4	n/a	n/a	n/a	n/a	10.0	n/a	J
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.13E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	83.9	n/a	n/a	n/a	n/a	12.5	n/a	J
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U

	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U

	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	147	n/a	n/a	n/a	n/a	15.0	n/a	J
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	AN102BL1d1	AN102BL1d1	S12R000439	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.0	<9.22	3.69E+03	n/a	n/a	n/a	n/a	277	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	54.9	n/a	n/a	n/a	n/a	0.0117	0.807	
	AN102BL1d1	AN102BL1d1	S12R000439	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	87.3	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.19E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.7	<20.0	2.48E+04	n/a	n/a	n/a	n/a	200	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.150	n/a	n/a	n/a	n/a	3.83E-05	0.5	
	AN102BL1d1	AN102BL1d1	S12R000439	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	64.1	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d1	AN102BL1d1	S12R000439	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	AN102BL1d2	AN102BL1d2	S12R000440	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	3.22E-03	n/a	n/a	n/a	n/a	1.50E-05	2.34	
	AN102BL1d2	AN102BL1d2	S12R000440	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.102	n/a	n/a	n/a	n/a	1.78E-05	0.39	
	AN102BL1d2	AN102BL1d2	S12R000440	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	100.77	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	3.71E-04	n/a	n/a	n/a	n/a	4.33E-06	6.58	
	AN102BL1d2	AN102BL1d2	S12R000440	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN102BL1d2	AN102BL1d2	S12R000440	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.50	n/a	n/a	n/a	n/a	0.100	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	210	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.48E+04	n/a	n/a	n/a	n/a	15.0	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U

	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	460	n/a	n/a	n/a	n/a	200	n/a	J
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	62.4	n/a	n/a	n/a	n/a	2.50	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	267	n/a	n/a	n/a	n/a	2.50	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	24.4	n/a	n/a	n/a	n/a	5.00	n/a	J
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	35.0	n/a	n/a	n/a	n/a	25.0	n/a	J
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.54E+03	n/a	n/a	n/a	n/a	50.0	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	9.88	n/a	n/a	n/a	n/a	2.50	n/a	J
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	52.2	n/a	n/a	n/a	n/a	2.50	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.61E+05	n/a	n/a	n/a	n/a	100	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	16.1	n/a	n/a	n/a	n/a	7.50	n/a	J
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	443	n/a	n/a	n/a	n/a	2.50	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.77E+03	n/a	n/a	n/a	n/a	7.50	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	184	n/a	n/a	n/a	n/a	15.0	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	n/a	n/a	n/a	n/a	22.5	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	n/a	n/a	n/a	n/a	75.0	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	21.6	n/a	n/a	n/a	n/a	10.0	n/a	J
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.25E+03	n/a	n/a	n/a	n/a	12.5	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	79.5	n/a	n/a	n/a	n/a	12.5	n/a	J
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	n/a	n/a	n/a	n/a	7.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	n/a	n/a	n/a	n/a	15.0	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	n/a	n/a	n/a	n/a	2.50	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	162	n/a	n/a	n/a	n/a	15.0	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	n/a	n/a	n/a	n/a	5.00	n/a	U
	AN102BL1d2	AN102BL1d2	S12R000440	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	n/a	n/a	n/a	n/a	10.0	n/a	U

	AN102BL1d2	AN102BL1d2	S12R000440	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.0	<9.22	3.70E+03	n/a	n/a	n/a	n/a	277	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	55.2	n/a	n/a	n/a	n/a	0.0117	0.805	
	AN102BL1d2	AN102BL1d2	S12R000440	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	87.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.15E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.7	<20.0	2.15E+04	n/a	n/a	n/a	n/a	200	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.155	n/a	n/a	n/a	n/a	4.00E-05	0.5	
	AN102BL1d2	AN102BL1d2	S12R000440	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	61.4	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d2	AN102BL1d2	S12R000440	pH of Liquids		PH	pH	unitless	n/a	n/a	13.6	n/a	n/a	n/a	n/a	0.0100	n/a	E
	AN102BL1d3	AN102BL1d3	S12R000441	Am241,Cm243 by TRU-Spec Resin		CM-243/244	Curium-243/244	uCi/mL	n/a	<1.39E-05	2.93E-03	n/a	n/a	n/a	n/a	1.34E-05	2.38	
	AN102BL1d3	AN102BL1d3	S12R000441	Am241,Cm243 by TRU-Spec Resin		14596-10-2	Americium-241	uCi/mL	97.1	1.99E-05	0.0925	n/a	n/a	n/a	n/a	1.44E-05	0.40	
	AN102BL1d3	AN102BL1d3	S12R000441	Am241,Cm243 by TRU-Spec Resin		14993-75-0T	Americium-243T	%	n/a	98.820	105.98	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	Am241,Cm243 by TRU-Spec Resin		15510-73-3	Curium-242	uCi/mL	n/a	<4.11E-06	3.20E-04	n/a	n/a	n/a	n/a	4.07E-06	6.87	
	AN102BL1d3	AN102BL1d3	S12R000441	Americium Separation			Tracer Book No.	mL	n/a	112B59	112B59	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	Americium Separation			Tracer Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	Americium Separation			Sample Volume	mL	n/a	0.250	0.250	n/a	n/a	n/a	n/a	n/a	n/a	Q
	AN102BL1d3	AN102BL1d3	S12R000441	Americium Separation			Standard/Spike Book No.	mL	n/a	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	Americium Separation			Standard/Spike Volume	mL	n/a	0.0	0.0	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	Amount of Sam/Present/hotcell		MASS	Mass	g	n/a	n/a	7.40	n/a	n/a	n/a	n/a	0.100	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	Dose Rate in Hotcell		NONE	Dose Rate	mRem/hr	n/a	n/a	188	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-22-4	Silver	ug/mL	102	<1.00E-03	<2.50	<2.50	n/a	n/a	90.5	2.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7429-90-5	Aluminum	ug/mL	101	<6.00E-03	1.45E+04	1.57E+04	1.51E+04	7.97	92.4	15.0	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-38-2	Arsenic	ug/mL	99.2	<5.00E-03	<12.5	<12.5	n/a	n/a	95.9	12.5	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-39-3	Barium	ug/mL	101	<1.00E-03	<2.50	<2.50	n/a	n/a	94.4	2.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-41-7	Beryllium	ug/mL	100	<1.00E-03	<2.50	<2.50	n/a	n/a	96.8	2.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-69-9	Bismuth	ug/mL	104	<6.00E-03	<15.0	<15.0	n/a	n/a	96.2	15.0	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-70-2	Calcium	ug/mL	95.5	<0.0800	461	449	455	2.65	90.0	200	n/a	J
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-43-9	Cadmium	ug/mL	97.8	<1.00E-03	62.9	61.1	62.0	2.91	89.4	2.50	n/a	

	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-47-3	Chromium	ug/mL	100	<1.00E-03	255	276	266	7.72	95.3	2.50	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-50-8	Copper	ug/mL	105	<2.00E-03	25.9	28.2	27.0	8.36	101	5.00	n/a	J
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-53-1	Europium	ug/mL	101	<1.00E-03	<2.50	<2.50	n/a	n/a	90.9	2.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7439-89-6	Iron	ug/mL	99.6	<0.0100	34.0	37.1	35.5	8.67	93.3	25.0	n/a	J
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-09-7	Potassium	ug/mL	109	<0.0200	2.53E+03	2.71E+03	2.62E+03	6.97	96.8	50.0	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7439-93-2	Lithium	ug/mL	111	<1.00E-03	<2.50	<2.50	n/a	n/a	98.4	2.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7439-95-4	Magnesium	ug/mL	100	<2.00E-03	<5.00	<5.00	n/a	n/a	91.7	5.00	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7439-96-5	Manganese	ug/mL	100	<1.00E-03	9.53	10.1	9.79	5.40	91.3	2.50	n/a	J

	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7439-98-7	Molybdenum	ug/mL	97.0	<1.00E-03	54.5	52.1	53.3	4.45	90.5	2.50	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-23-5	Sodium	ug/mL	107	<0.0400	2.51E+05	2.72E+05	2.62E+05	7.90	103	100	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-00-8	Neodymium	ug/mL	101	<3.00E-03	11.7	23.4	17.6	67.0	95.2	7.50	n/a	J
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-02-0	Nickel	ug/mL	101	<1.00E-03	447	433	440	3.08	92.4	2.50	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-30-1	Niobium	ug/mL	96.9	<3.00E-03	<7.50	<7.50	n/a	n/a	90.0	7.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7723-14-0	Phosphorus	ug/mL	98.1	<3.00E-03	1.80E+03	1.74E+03	1.77E+03	3.48	92.2	7.50	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7439-92-1	Lead	ug/mL	100	<6.00E-03	180	178	179	1.38	97.8	15.0	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-05-3	Palladium	ug/mL	97.6	<9.00E-03	<22.5	<22.5	n/a	n/a	87.8	22.5	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-10-0	Praseodymium	ug/mL	97.5	<4.00E-03	12.6	<10.0	n/a	n/a	89.9	10.0	n/a	J
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-17-7	Rubidium	ug/mL	100	<0.0300	<75.0	<75.0	n/a	n/a	91.1	75.0	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-18-8	Ruthenium	ug/mL	101	<4.00E-03	22.9	28.9	25.9	23.1	92.4	10.0	n/a	J
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7704-34-9	Sulfur	ug/mL	101	<5.00E-03	5.33E+03	5.17E+03	5.25E+03	2.96	99.0	12.5	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-36-0	Antimony	ug/mL	97.0	<6.00E-03	<15.0	<15.0	n/a	n/a	106	15.0	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7782-49-2	Selenium	ug/mL	99.9	<6.00E-03	<15.0	<15.0	n/a	n/a	96.0	15.0	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-21-3	Silicon	ug/mL	109	<5.00E-03	<12.5	<12.5	n/a	n/a	104	12.5	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-19-9	Samarium	ug/mL	99.2	0.0291	82.6	83.5	83.1	1.10	90.8	12.5	n/a	J
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-31-5	Tin	ug/mL	97.1	<3.00E-03	<7.50	<7.50	n/a	n/a	89.2	7.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-24-6	Strontium	ug/mL	99.1	<2.00E-03	<5.00	<5.00	n/a	n/a	93.3	5.00	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-25-7	Tantalum	ug/mL	98.3	<5.00E-03	<12.5	<12.5	n/a	n/a	93.0	12.5	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		13494-80-9	Tellurium	ug/mL	97.4	<5.00E-03	<12.5	<12.5	n/a	n/a	91.5	12.5	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-29-1	Thorium	ug/mL	99.1	<5.00E-03	<12.5	<12.5	n/a	n/a	92.0	12.5	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-32-6	Titanium	ug/mL	98.3	<1.00E-03	<2.50	<2.50	n/a	n/a	93.8	2.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-28-0	Thallium	ug/mL	99.7	<6.00E-03	<15.0	<15.0	n/a	n/a	89.5	15.0	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-61-1	Uranium	ug/mL	97.2	<0.0200	<50.0	53.5	n/a	n/a	88.3	50.0	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-62-2	Vanadium	ug/mL	100	<1.00E-03	<2.50	<2.50	n/a	n/a	95.0	2.50	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-33-7	Tungsten	ug/mL	97.9	9.23E-03	161	163	162	1.19	95.1	15.0	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-65-5	Yttrium	ug/mL	96.5	<2.00E-03	<5.00	<5.00	n/a	n/a	87.0	5.00	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	ICP-AES		7440-66-6	Zinc	ug/mL	101	<4.00E-03	<10.0	<10.0	n/a	n/a	95.3	10.0	n/a	U
	AN102BL1d3	AN102BL1d3	S12R000441	OH- by Pot. Titration		HYDROXIDE	Hydroxide	ug/mL	98.0	<9.22	3.94E+03	n/a	n/a	n/a	n/a	277	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	STRONTIUM-90 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	Sr-89/90 by GPC		SR-89/90	Strontium-89/90	uCi/mL	99.9	<0.0384	53.8	n/a	n/a	n/a	n/a	0.0119	0.824	
	AN102BL1d3	AN102BL1d3	S12R000441	Sr-89/90 by GPC		7440-24-6C	Strontium-C	%	n/a	90.9	85.4	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	TC-99 SEPARATION			RadChem Separation	unitless	n/a	n/a	Complete	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	TIC/TOC by Acid Persulfate		TIC	Total inorganic carbon	ug/mL	101	<7.00	1.21E+04	n/a	n/a	n/a	n/a	70.0	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	TIC/TOC by Acid Persulfate		TOC	Total organic carbon	ug/mL	94.7	<20.0	2.45E+04	n/a	n/a	n/a	n/a	200	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	Technetium - Liq. Scint.		14133-76-7	Technetium-99	uCi/mL	107	<4.08E-05	0.185	n/a	n/a	n/a	n/a	4.68E-05	0.4	
	AN102BL1d3	AN102BL1d3	S12R000441	Technetium - Liq. Scint.		14133-76-7T	Technetium-99T	%	n/a	60.9	52.3	n/a	n/a	n/a	n/a	n/a	n/a	
	AN102BL1d3	AN102BL1d3	S12R000441	pH of Liquids		PH	pH	unitless	n/a	n/a	13.5	13.6	13.6	0.221	n/a	0.0100	n/a	E

NA = Not Analyzed, ND = Not Detected																		
c – Relative Percent Difference Outside Range																		
E - Outside Calibration Range																		
a – Laboratory Control Sample Outside Range																		
Q - Qualitative																		
b – Matrix Spike/Matrix Spike Duplicate Outside Range																		
J - Estimated																		
U - Less Than Detection Limit																		
B - Found in Blank																		
GPC = gel permeation chromatography																		
ICP/AES = inductively coupled plasma/atomic emission spectroscopy																		
TGA = thermogravimetric analysis																		
TIC/TOC = total inorganic carbon/total organic carbon																		

Appendix D

Target Concentration Calculations

Maximum sodium oxide (Na_2O) loading in ILAW: 20 wt% (ORP-11242, *River Protection Project System Plan,* Appendix B, section B3.3.4.9).

Average bulk density of ILAW glass: 2.58 kg/L (ORP-11242, Appendix B, section B3.3.4.5).

TRU concentration limit for ILAW glass: 100 nCi/g (DE-AC27-01RV14136, Specification 2.2.2.8, Radionuclide Concentration Limitations, which requires that "the radionuclide concentration of the ILAW form shall not exceed Class C limits as defined in 10 CFR 61.55") (Title 10, *Code of Federal Regulations*, Part 61.55, Waste Classification).

Sr-90 concentration limit for ILAW glass: 20 Ci/m^3 (DE-AC27-01RV14136, Specification 2.2.2.8, Radionuclide Concentration Limitations).

Sodium loading in glass.

$$\left(0.2\frac{g\ Na_2O}{g\ glass}\right)\left(\frac{1\ mol\ Na_2O}{62\ g\ Na_2O}\right)\left(\frac{2\ mol\ Na}{1\ mol\ Na_2O}\right)\left(\frac{23\ g\ Na}{1\ mol\ Na}\right) = 0.15\ \frac{g\ Na}{g\ glass} \tag{D-1}$$

TRU loading in glass calculated based on uCi TRU/mol Na in supernate.

$$\left(x\frac{\mu Ci\ TRU}{mol\ Na}\right)\left(\frac{1\ Ci}{10^6\ \mu Ci}\right)\left(\frac{10^9 nCi}{1\ Ci}\right)\left(\frac{1\ mol\ Na}{23\ g\ Na}\right)\left(0.15\ \frac{g\ Na}{g\ glass}\right) = 100\ \frac{nCi\ TRU}{g\ glass} \tag{D-2}$$

Target TRU to sodium ratio in supernate to achieve 100 nCi/g TRU concentration in glass.

$$x\frac{\mu Ci\ TRU}{mol\ Na} = \frac{100\ \frac{nCi\ TRU}{g\ glass}}{\left(\frac{1\ Ci}{10^6\ \mu Ci}\right)\left(\frac{10^9 nCi}{1\ Ci}\right)\left(\frac{1\ mol\ Na}{23\ g\ Na}\right)\left(0.15\ \frac{g\ Na}{g\ glass}\right)} = 1.53\times 10^1\ \frac{\mu Ci\ TRU}{mol\ Na} \tag{D-3}$$

Sr-90 loading in glass calculated based on uCi Sr-90 /mol Na in supernate.

$$\left(x\frac{\mu Ci\ ^{90}Sr}{mol\ Na}\right)\left(\frac{1\ Ci}{10^6\ \mu Ci}\right)\left(\frac{10^9 nCi}{1\ Ci}\right)\left(\frac{1\ mol\ Na}{23\ g\ Na}\right)\left(0.15\ \frac{g\ Na}{g\ glass}\right)\left(\frac{10^3\ g}{1\ kg}\right)\left(\frac{2.58\ kg\ glass}{1\ L}\right)\left(\frac{10^3\ L}{1\ m^3}\right) = 20\frac{Ci\ ^{90}Sr}{m^3 glass} \tag{D-4}$$

Target Sr-90 to Na ratio in supernate to achieve 20 Ci/m^3 Sr-90 concentration in glass.

$$x\frac{\mu Ci\ ^{90}Sr}{mol\ Na} = \frac{20\frac{Ci\ ^{90}Sr}{m^3 glass}}{\left(\frac{1\ Ci}{10^6\ \mu Ci}\right)\left(\frac{10^9 nCi}{1\ Ci}\right)\left(\frac{1\ mol\ Na}{23\ g\ Na}\right)\left(0.15\ \frac{g\ Na}{g\ glass}\right)\left(\frac{10^3\ g}{1\ kg}\right)\left(\frac{2.58\ kg\ glass}{1\ L}\right)\left(\frac{10^3\ L}{1\ m^3}\right)} = \tag{D-5}$$

$$1.19 \times 10^{-3}\frac{\mu Ci\ ^{90}Sr}{mol\ Na}$$

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