

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
MCOI-5	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-222	CAMO-17-141972	Bromide
						2017-993	CAMO-17-129289	Bromide Fluoride
		EPA:335.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-150	CAMO-17-132219	Cyanide (Total)
						2018-853	CAMO-18-148070	Cyanide (Total)
		EPA:350.1	J+	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2017-222	CAMO-17-141988	Cyanide (Total)
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-853	CAMO-18-148054	Ammonia as Nitrogen
		EPA:351.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-150	CAMO-17-132199	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-853	CAMO-18-148070	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-222	CAMO-17-141972	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-150	CAMO-17-132199	Boron Vanadium
						2017-222	CAMO-17-141972	Boron Tin Vanadium
						2017-993	CAMO-17-129289	Boron Tin Vanadium
						2018-853	CAMO-18-148054	Boron Tin

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Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
								Vanadium Zinc
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-150	CAMO-17-132199	Chromium Uranium
						2017-222	CAMO-17-141972	Chromium Uranium
						2017-993	CAMO-17-129289	Chromium Nickel Uranium
						2018-853	CAMO-18-148054	Arsenic Chromium Nickel Uranium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-150	CAMO-17-132219	Total Organic Carbon
	RAD					2017-222	CAMO-17-141988	Total Organic Carbon
						2017-993	CAMO-17-129305	Total Organic Carbon
						2018-853	CAMO-18-148070	Total Organic Carbon
		EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CAMO-18-148070	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CAMO-18-148070	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-853	CAMO-18-148070	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CAMO-18-148070	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CAMO-18-148070	Strontium-90
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CAMO-18-148070	Americium-241

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Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
MCOI-6	INORGANIC	HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CAMO-18-148070	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	J	R10	Associated duplicate sample has DER or RER> the analytical laboratory's acceptance limits.	2018-853	CAMO-18-148070	Uranium-234 Uranium-238
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CAMO-18-148070	Uranium-235/236
		EPA:335.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-152	CAMO-17-132307	Cyanide (Total) Cyanide (Total) Cyanide (Total) Cyanide (Total)
						2017-237	CAMO-17-141989	
						2017-993	CAMO-17-129306	
						2018-854	CAMO-18-148071	
			J+	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2017-152	CAMO-17-132220	Cyanide (Total)
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-854	CAMO-18-148055	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-152	CAMO-17-132200 CAMO-17-132308	Ammonia as Nitrogen Ammonia as Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-152	CAMO-17-132200 CAMO-17-132308	Total Phosphate as Phosphorus Total Phosphate as Phosphorus
							CAMO-17-132200 CAMO-17-132308	Copper Tin Copper Tin Vanadium

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Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2017-237	CAMO-17-142777	Boron Copper Vanadium
						2017-993	CAMO-17-129290	Copper Tin Vanadium
						2018-854	CAMO-18-148055	Copper Manganese Tin
		SW-846:6850	J+	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2017-237	CAMO-17-142777	Calcium
			J	PE12d	The MS/MSD percent recovery was <10%	2018-854	CAMO-18-148055	Perchlorate
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-152	CAMO-17-132220	Total Organic Carbon
							CAMO-17-132307	Total Organic Carbon
						2017-237	CAMO-17-141989	Total Organic Carbon
						2017-993	CAMO-17-129306	Total Organic Carbon
						2018-854	CAMO-18-148071	Total Organic Carbon
	ORGANIC	SW-846:8270D	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-152	CAMO-17-132307	Dioxane[1,4-]
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148071	Gross alpha
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148071	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148071	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148071	Sodium-22

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Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
R-1	INORGANIC	EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148071	Strontium-90
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148071	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148071	Plutonium-238 Plutonium-239/240
		EPA:160.1	J	I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package	2017-153	CAMO-17-132201	Total Dissolved Solids
		EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-854	CAMO-18-148056  CAMO-18-148108	Fluoride  Fluoride
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-854	CAMO-18-148056  CAMO-18-148108	Ammonia as Nitrogen  Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-153	CAMO-17-132201	Ammonia as Nitrogen
		EPA:351.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-854	CAMO-18-148110	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-153	CAMO-17-132201	Total Phosphate as Phosphorus
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-153  2018-854	CAMO-17-132201  CAMO-18-148056  CAMO-18-148108	Chromium  Arsenic Chromium Nickel  Arsenic Chromium Nickel
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148072	Gross alpha Gross beta

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Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
							CAMO-18-148110	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148072	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148072	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148072 CAMO-18-148110	Sodium-22 Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148110	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148110	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148072 CAMO-18-148110	Strontium-90 Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-932	CAMO-18-148072 CAMO-18-148110	Tritium Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148072 CAMO-18-148110	Americium-241 Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CAMO-18-148072 CAMO-18-148110	Plutonium-238 Plutonium-239/240 Plutonium-238 Plutonium-239/240
R-11	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100  2017-149	CASA-17-129323  CASA-17-129339 CASA-17-132319	Bromide Bromide Bromide

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Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2017-227	CASA-17-142006	Bromide
						2018-828	CASA-18-147991	Bromide
			J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-227	CASA-17-142006	Sulfate
		EPA:310.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-227	CASA-17-142006	Alkalinity-CO3
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-149	CASA-17-132319	Ammonia as Nitrogen
						2018-828	CASA-18-147991	Ammonia as Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CASA-17-129323	Total Phosphate as Phosphorus
						2017-149	CASA-17-132319	Total Phosphate as Phosphorus
						2017-227	CASA-17-142006	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CASA-17-129323	Boron
							CASA-17-129339	Boron
								Tin
						2017-149	CASA-17-132319	Boron
								Zinc
						2017-227	CASA-17-142006	Boron
								Tin
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CASA-17-129323	Arsenic
							CASA-17-129339	Arsenic
						2017-149	CASA-17-132319	Arsenic

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	RAD					2017-227	CASA-17-142006	Arsenic
						2018-828	CASA-18-147991	Arsenic
			J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-828	CASA-18-147991	Molybdenum
		EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-828	CASA-18-147998	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-828	CASA-18-147998	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-828	CASA-18-147998	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-828	CASA-18-147998	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-828	CASA-18-147998	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-833	CASA-18-147998	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-828	CASA-18-147998	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-828	CASA-18-147998	Plutonium-238 Plutonium-239/240
R-13	INORGANIC	EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CAMO-17-129291	Ammonia as Nitrogen
			J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-154	CAMO-17-132202	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CAMO-17-129307	Total Kjeldahl Nitrogen
			UJ	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2017-154	CAMO-17-132222	Total Kjeldahl Nitrogen



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Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		EPA:365.4	UJ	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2018-827	CAMO-18-148073	Total Kjeldahl Nitrogen
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CAMO-17-129291	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-154	CAMO-17-132202	Total Phosphate as Phosphorus
						2017-100	CAMO-17-129291	Vanadium
						2017-154	CAMO-17-132202	Vanadium
						2017-233	CAMO-17-141974	Vanadium
						2018-827	CAMO-18-148057	Boron Cobalt Zinc
		SW-846:6020	J+	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2018-827	CAMO-18-148057	Calcium
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CAMO-17-129291	Arsenic Chromium
						2017-154	CAMO-17-132202	Chromium
						2017-233	CAMO-17-141974	Chromium
						2018-827	CAMO-18-148057	Chromium
		SW-846:6850	J	PE12e	The MS/MSD percent recovery was >10% but <75%	2017-233	CAMO-17-141974	Molybdenum
						2018-827	CAMO-18-148057	Molybdenum
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-233	CAMO-17-141990	Total Organic Carbon

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						2018-827	CAMO-18-148073	Total Organic Carbon
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148073	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148073	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148073	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148073	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148073	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-835	CAMO-18-148073	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148073	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148073	Plutonium-238 Plutonium-239/240
R-15	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-153	CAMO-17-132204	Bromide
						2017-233	CAMO-17-141975	Bromide
						2017-993	CAMO-17-129292	Fluoride
		EPA:350.1	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-153	CAMO-17-132204	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-153	CAMO-17-132224	Total Kjeldahl Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-827	CAMO-18-148074	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-153	CAMO-17-132204	Total Phosphate as Phosphorus
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-993	CAMO-17-129292	Arsenic

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			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-827	CAMO-18-148058	Nickel
							CAMO-18-148109	Nickel
						2017-233	CAMO-17-141975	Molybdenum
						2018-827	CAMO-18-148058	Molybdenum
							CAMO-18-148109	Molybdenum
						2017-993	CAMO-17-129308	Total Organic Carbon
						2018-827	CAMO-18-148074	Total Organic Carbon
							CAMO-18-148111	Total Organic Carbon
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL			
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148074	Gross alpha Gross beta
							CAMO-18-148111	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148074	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148074	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148074 CAMO-18-148111	Sodium-22 Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148111	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148111	Sodium-22
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148074	Strontium-90
							CAMO-18-148111	Strontium-90
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148074	

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		Generic:Low_Level_Tritium	J-	R12a	The LCS percent recovery was <the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-835	CAMO-18-148074  CAMO-18-148111	Tritium  Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148074  CAMO-18-148111	Americium-241  Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148074  CAMO-18-148111	Plutonium-238 Plutonium-239/240  Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-827	CAMO-18-148111	Uranium-235/236
R-28	INORGANIC	EPA:335.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-231	CAMO-17-141992	Cyanide (Total)
						2017-985	CAMO-17-129309  CAMO-17-129321	Cyanide (Total)  Cyanide (Total)
			J+	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2017-151	CAMO-17-132225	Cyanide (Total)
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-231	CAMO-17-141976	Ammonia as Nitrogen
						2017-985	CAMO-17-129322	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-151	CAMO-17-132205	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-151	CAMO-17-132225	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-151	CAMO-17-132205	Total Phosphate as Phosphorus

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-151	CAMO-17-132205	Boron Vanadium
						2017-231	CAMO-17-141976	Boron Vanadium
						2017-985	CAMO-17-129293	Boron Vanadium
							CAMO-17-129322	Boron Vanadium
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-231	CAMO-17-141976	Antimony
						2017-985	CAMO-17-129293	Arsenic
							CAMO-17-129322	Arsenic Cadmium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-151	CAMO-17-132225	Total Organic Carbon
						2017-231	CAMO-17-141992	Total Organic Carbon
R-33 S1	INORGANIC	EPA:160.1	J	I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package	2017-150	CAMO-17-132206	Total Dissolved Solids
		EPA:300.0	J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-228	CAMO-17-141977	Sulfate
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-787	CAMO-18-148059	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-150	CAMO-17-132206	Ammonia as Nitrogen

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-150	CAMO-17-132206	Total Phosphate as Phosphorus
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-787	CAMO-18-148059	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-228	CAMO-17-141977	Tin
						2018-787	CAMO-18-148059	Zinc
			J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2017-101	CAMO-17-129294	Silicon Dioxide
						2018-787	CAMO-18-148059	Silicon Dioxide
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CAMO-17-129294	Arsenic Chromium Nickel
						2017-150	CAMO-17-132206	Arsenic Chromium Nickel
			J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-150	CAMO-17-132206	Uranium
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-228	CAMO-17-141977	Chromium Nickel
						2018-787	CAMO-18-148059	Nickel
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-787	CAMO-18-148059	Chromium
	ORGANIC	SW-846:8270D	UJ	SV12a	The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-787	CAMO-18-148075	Dinitrophenol[2,4-] Hexachlorocyclopentadiene

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148075	Gross alpha
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148075	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148075	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148075	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148075	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-835	CAMO-18-148075	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148075	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148075	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148075	Uranium-235/236
R-33 S2	INORGANIC	EPA:300.0	J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-228	CAMO-17-141978	Sulfate
		EPA:350.1	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-151	CAMO-17-132207	Ammonia as Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-151	CAMO-17-132207	Total Phosphate as Phosphorus
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-787	CAMO-18-148060	Total Phosphate as Phosphorus
		SW-846:6010C	J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2017-151	CAMO-17-132207	Silicon Dioxide
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CAMO-17-129295	Arsenic Chromium
						2017-151	CAMO-17-132207	Chromium
						2017-228	CAMO-17-141978	Chromium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
R-35a	ORGANIC	SW-846:8270D	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-787	CAMO-18-148060	Chromium
			UJ	SV12a	The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-787	CAMO-18-148076	Dinitrophenol[2,4-] Hexachlorocyclopentadiene
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148076	Gross alpha
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148076	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148076	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148076	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148076	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-835	CAMO-18-148076	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148076	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-787	CAMO-18-148076	Plutonium-238 Plutonium-239/240
	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-211	CASA-17-142007	Bromide
						2018-739	CASA-18-148005	Bromide
		EPA:310.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-147	CASA-17-132320	Alkalinity-CO3
		EPA:350.1	J	I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package	2017-147	CASA-17-132320	Ammonia as Nitrogen
		EPA:351.2	UJ	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2017-100	CASA-17-129331	Total Kjeldahl Nitrogen
		EPA:365.4	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-211	CASA-17-142007	Total Phosphate as Phosphorus



## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2018-739	CASA-18-148005	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CASA-17-129325	Aluminum Boron Iron Tin
						2017-147	CASA-17-132320	Boron Tin
						2017-211	CASA-17-142007	Boron Tin Zinc
						2018-739	CASA-18-148005	Boron Tin
			J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2018-739	CASA-18-148005	Silicon Dioxide
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CASA-17-129325	Arsenic Chromium
						2017-147	CASA-17-132320	Arsenic Chromium
						2017-211	CASA-17-142007	Arsenic
						2018-739	CASA-18-148005	Arsenic Chromium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CASA-17-129331	Total Organic Carbon
						2017-147	CASA-17-132329	Total Organic Carbon
						2017-211	CASA-17-142015	Total Organic Carbon

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2018-739	CASA-18-148007	Total Organic Carbon
	ORGANIC	SW-846:8270D	UJ	SV12a	The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-739	CASA-18-148007	Dinitrophenol[2,4-] Hexachlorocyclopentadiene
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148007	Gross alpha
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148007	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148007	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148007	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148007	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-835	CASA-18-148007	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148007	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148007	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148007	Uranium-235/236
R-35b	INORGANIC	EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CASA-17-129326	Ammonia as Nitrogen
						2017-147	CASA-17-132321	Ammonia as Nitrogen
						2017-211	CASA-17-142008	Ammonia as Nitrogen
		EPA:365.4	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-211	CASA-17-142008	Total Phosphate as Phosphorus
						2018-739	CASA-18-148006	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CASA-17-129326	Boron Zinc

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2017-147	CASA-17-132321	Boron Tin
						2017-211	CASA-17-142008	Boron
						2018-739	CASA-18-148006	Boron
						2017-100	CASA-17-129326	
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-147	CASA-17-132321	Arsenic Chromium
						2017-211	CASA-17-142008	Arsenic Chromium
						2018-739	CASA-18-148006	Arsenic Chromium
	ORGANIC	SW-846:8260B	U	V4	The sample result is less than or equal to 5 times (10 times for acetone, methylene chloride, and 2-butanone) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.	2018-739	CASA-18-148008	Acetone
		SW-846:8270D	UJ	SV12a	The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-739	CASA-18-148008	Dinitrophenol[2,4-] Hexachlorocyclopentadiene
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148008	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148008	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148008	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148008	Sodium-22

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148008	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-835	CASA-18-148008	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148008	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148008	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-148008	Uranium-235/236
R-36	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129327	Bromide Bromide Bromide Bromide Bromide
						2017-148	CASA-17-132322	
						2017-211	CASA-17-142009	
							CASA-17-142022	
						2018-739	CASA-18-147992	
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-211	CASA-17-142009	Ammonia as Nitrogen
							CASA-17-142022	Ammonia as Nitrogen
			J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2017-148	CASA-17-132322	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129333	Total Kjeldahl Nitrogen
			UJ	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2017-148	CASA-17-132331	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-148	CASA-17-132322	Total Phosphate as Phosphorus
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-211	CASA-17-142009	Total Phosphate as Phosphorus

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2018-739	CASA-17-142022	Total Phosphate as Phosphorus
							CASA-18-147992	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129327	
						2017-148	CASA-17-132322	Boron
						2017-211	CASA-17-142009	Boron Tin
								Boron Tin
								Boron Tin
						2018-739	CASA-18-147992	Boron
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129327	
						2017-148	CASA-17-132322	Arsenic Chromium Nickel
								Arsenic Chromium Nickel
								Arsenic Chromium Nickel
						2018-739	CASA-18-147992	Arsenic Chromium Nickel
			U	14	the sample result is =<5x the concentration of related analyte in the method blank.	2017-101	CASA-17-129327	Uranium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		SW-846:6850	J	PE12e	The MS/MSD percent recovery was >10% but <75%	2017-148	CASA-17-132322	Perchlorate
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-148	CASA-17-132331	Total Organic Carbon
	ORGANIC	SW-846:8270D	UJ	SV12a	The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-739	CASA-18-147999	Dinitrophenol[2,4-] Hexachlorocyclopentadiene
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-147999	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-147999	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-147999	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-147999	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-147999	Strontium-90
		Generic:Low_Level_Tritium	J-	R12a	The LCS percent recovery was <the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-835	CASA-18-147999	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-147999	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-147999	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-739	CASA-18-147999	Uranium-235/236
R-42	INORGANIC	EPA:160.1	J	I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package	2017-151	CAMO-17-132208	Total Dissolved Solids
		EPA:350.1	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-151	CAMO-17-132208	Ammonia as Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-151	CAMO-17-132208	Total Phosphate as Phosphorus

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-151	CAMO-17-132208	Boron Vanadium
						2017-217	CAMO-17-141979	Boron Tin Vanadium
			J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2017-217	CAMO-17-141979	Calcium Sodium
		SW-846:6020	J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2017-217	CAMO-17-141979	Chromium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-151	CAMO-17-132228	Total Organic Carbon
R-43 S1	INORGANIC					2017-217	CAMO-17-141995	Total Organic Carbon
		EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129340	Bromide
						2017-149	CASA-17-132323	Bromide
						2017-242	CASA-17-142776	Bromide
						2018-854	CASA-18-147993	Bromide
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-854	CASA-18-147993	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-149	CASA-17-132323	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129334	Total Kjeldahl Nitrogen

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-149	CASA-17-132323	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129340	Aluminum Boron
						2017-149	CASA-17-132323	Boron Zinc
						2018-854	CASA-18-147993	Boron Zinc
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129340	Arsenic Uranium
						2017-149	CASA-17-132323	Uranium
						2017-242	CASA-17-142776	Uranium
						2018-854	CASA-18-147993	Arsenic Selenium Uranium
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-149	CASA-17-132323	Arsenic
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129334	Total Organic Carbon
	RAD					2017-149	CASA-17-132332	Total Organic Carbon
						2017-242	CASA-17-142018	Total Organic Carbon
						2018-854	CASA-18-148000	Total Organic Carbon
		EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148000	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148000	Cesium-137



## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
								Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148000	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148000	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148000	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-932	CASA-18-148000	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148000	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148000	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148000	Uranium-235/236 Uranium-238
R-43 S2	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129329	Bromide Bromide Bromide Bromide
						2017-149	CASA-17-132324	
						2017-236	CASA-17-142011	
						2018-854	CASA-18-147994	
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129329	Ammonia as Nitrogen Ammonia as Nitrogen Ammonia as Nitrogen
						2017-236	CASA-17-142011	
						2018-854	CASA-18-147994	
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-149	CASA-17-132324	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129335	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-149	CASA-17-132324	Total Phosphate as Phosphorus

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2018-854	CASA-18-147994	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129329	
						2017-149	CASA-17-132324	Boron
								Boron
						2017-236	CASA-17-142011	Tin
								Boron
						2018-854	CASA-18-147994	Boron
								Tin
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129329	
						2017-236	CASA-17-142011	Arsenic
						2018-854	CASA-18-147994	Arsenic
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-149	CASA-17-132324	Arsenic
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129335	
						2017-149	CASA-17-132333	Total Organic Carbon
						2017-236	CASA-17-142019	Total Organic Carbon
						2018-854	CASA-18-148001	Total Organic Carbon
								Total Organic Carbon
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148001	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148001	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148001	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148001	Sodium-22

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148001	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-932	CASA-18-148001	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148001	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148001	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-854	CASA-18-148001	Uranium-235/236
R-44 S1	INORGANIC	EPA:300.0	J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-130	CAMO-18-150340	Chloride
		EPA:335.4	UJ	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2018-103	CAMO-18-148077	Cyanide (Total)
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-233	CAMO-17-141980	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-156	CAMO-17-132523	Ammonia as Nitrogen
						2018-103	CAMO-18-148061	Ammonia as Nitrogen
						2018-130	CAMO-18-150340	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-156	CAMO-17-133048	Total Kjeldahl Nitrogen
			UJ	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2018-130	CAMO-18-150348	Total Kjeldahl Nitrogen
		EPA:365.4	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-156	CAMO-17-132523	Total Phosphate as Phosphorus
						2018-634	CAMO-18-147638	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CAMO-17-129297	Vanadium
						2017-156	CAMO-17-132523	Vanadium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2017-233	CAMO-17-141980	Vanadium
						2018-103	CAMO-18-148061	Vanadium
						2018-634	CAMO-18-147638	Vanadium
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-100	CAMO-17-129297	Arsenic
						2017-233	CAMO-17-141980	Arsenic
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-233	CAMO-17-141980	Molybdenum
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-130	CAMO-18-150348	Total Organic Carbon
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148077	Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148077	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33		2018-103	CAMO-18-148077	Potassium-40
			U	R5		2018-103	CAMO-18-148077	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148077	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2017-161	CAMO-17-133048	Tritium
						2017-244	CAMO-17-142308	Tritium
						2018-106	CAMO-18-148077	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148077	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148077	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	J	R10	Associated duplicate sample has DER or RER> the analytical laboratory's acceptance limits.	2018-103	CAMO-18-148077	Uranium-238

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
R-44 S2	INORGANIC	EPA:300.0	J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-130	CAMO-18-150341	Chloride
		EPA:350.1	J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-156	CAMO-17-132210	Ammonia as Nitrogen
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-634	CAMO-18-147639	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-103	CAMO-18-148062	Ammonia as Nitrogen
						2018-130	CAMO-18-150341	Ammonia as Nitrogen
		EPA:365.4	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-156	CAMO-17-132210	Total Phosphate as Phosphorus
						2018-634	CAMO-18-147639	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129298	Boron Zinc
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129298	Chromium Nickel Thallium
						2017-156	CAMO-17-132210	Chromium
						2017-233	CAMO-17-141981	Chromium
						2018-103	CAMO-18-148062	Chromium
						2018-130	CAMO-18-150341	Chromium
						2018-634	CAMO-18-147639	Chromium
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-233	CAMO-17-141981	Molybdenum
	ORGANIC	SW-846:8260B	U	V4d	The samples result is <5x the concentration of the related analyte in the trip, rinsate and/or equipment blank.	2018-103	CAMO-18-148078	Methylene Chloride

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
	RAD	EPA:900	J	R10	Associated duplicate sample has DER or RER> the analytical laboratory's acceptance limits.	2018-103	CAMO-18-148078	Gross beta
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148078	Gross alpha
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148078	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148078	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148078	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148078	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2017-161	CAMO-17-133049	Tritium
						2017-244	CAMO-17-142309	Tritium
						2018-106	CAMO-18-148078	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148078	Americium-241
R-45 S1	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-155	CAMO-17-132211	Bromide
						2017-230	CAMO-17-142778	Bromide
						2017-986	CAMO-17-129411	Bromide
						2018-130	CAMO-18-150342	Bromide
						2018-656	CAMO-18-147640	Bromide
			J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-130	CAMO-18-150342	Chloride
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-230	CAMO-17-142778	Ammonia as Nitrogen

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-103	CAMO-18-148063	Ammonia as Nitrogen
						2018-656	CAMO-18-147640	Ammonia as Nitrogen
						2017-155	CAMO-17-132211	Ammonia as Nitrogen
		EPA:351.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-130	CAMO-18-150342	Ammonia as Nitrogen
						2018-656	CAMO-18-147655	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-103	CAMO-18-148063	Total Phosphate as Phosphorus
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-656	CAMO-18-147640	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-155	CAMO-17-132211	Boron
						2017-230	CAMO-17-142778	Vanadium
							CAMO-17-142781	Vanadium
							CAMO-17-129411	Vanadium
						2017-986	CAMO-17-129411	Boron
								Vanadium
						2018-103	CAMO-18-148063	Boron
								Vanadium
						2018-130	CAMO-18-150342	Zinc
						2018-656	CAMO-18-147640	Boron
								Vanadium
		SW-846:6020	J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2018-656	CAMO-18-147640	Silicon Dioxide
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-155	CAMO-17-132211	Arsenic
								Nickel

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2017-230	CAMO-17-142778	Nickel
							CAMO-17-142781	Nickel
						2017-986	CAMO-17-129411	Arsenic Nickel
						2018-103	CAMO-18-148063	Lead Nickel Selenium
						2018-130	CAMO-18-150342	Nickel
						2018-656	CAMO-18-147640	Nickel
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-155	CAMO-17-133050	Total Organic Carbon
						2017-230	CAMO-17-142310	Total Organic Carbon
							CAMO-17-142315	Total Organic Carbon
						2017-986	CAMO-17-129315	Total Organic Carbon
						2018-103	CAMO-18-148079	Total Organic Carbon
						2018-130	CAMO-18-150350	Total Organic Carbon
						2018-656	CAMO-18-147655	Total Organic Carbon
	ORGANIC	SW-846:8260B	U	V4d	The samples result is $\leq 5 \times$ the concentration of the related analyte in the trip, rinsate and/or equipment blank.	2018-103	CAMO-18-148079	Methylene Chloride
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148079	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148079	Cesium-137 Cobalt-60 Neptunium-237
			U	R5a,R33	R5a: The MDC and/or TPU documentation is missing. Data may not be acceptable for use.	2018-103	CAMO-18-148079	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148079	Sodium-22



## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148079	Strontium-90
		Generic:Low_Level_Tritium	J-	R12a	The LCS percent recovery was <the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2017-231	CAMO-17-142315	Tritium
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2017-155 2017-231	CAMO-17-133050 CAMO-17-142310	Tritium Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148079	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-103	CAMO-18-148079	Plutonium-238 Plutonium-239/240
R-45 S2	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-656	CAMO-18-147641	Bromide
							CAMO-18-147681	Bromide
			J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-130	CAMO-18-150343	Chloride
		EPA:350.1	J	I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package	2017-986	CAMO-17-129412	Ammonia as Nitrogen
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-656	CAMO-18-147641	Ammonia as Nitrogen
							CAMO-18-147681	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-155	CAMO-17-132212	Ammonia as Nitrogen
		EPA:351.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-656	CAMO-18-147656	Total Kjeldahl Nitrogen
							CAMO-18-147685	Total Kjeldahl Nitrogen
		EPA:365.4	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-656	CAMO-18-147641	Total Phosphate as Phosphorus
							CAMO-18-147681	Total Phosphate as Phosphorus

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-155	CAMO-17-132212	Boron
						2017-986	CAMO-17-129412	Boron
						2018-130	CAMO-18-150343	Boron
						2018-656	CAMO-18-147641	Cobalt Vanadium Zinc
							CAMO-18-147681	Boron Cobalt Vanadium
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-155	CAMO-17-132212	Arsenic Nickel
						2017-230	CAMO-17-142779	Nickel
						2017-986	CAMO-17-129412	Arsenic Nickel
						2018-130	CAMO-18-150343	Nickel
						2018-656	CAMO-18-147681	Nickel
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-155	CAMO-17-133051	Total Organic Carbon
						2017-230	CAMO-17-142311	Total Organic Carbon
						2017-986	CAMO-17-129316	Total Organic Carbon
						2018-130	CAMO-18-150351	Total Organic Carbon
						2018-656	CAMO-18-147685	Total Organic Carbon
	RAD	Generic:Low_Level_Tritium	J-	R12a	The LCS percent recovery was <the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2017-231	CAMO-17-142311	Tritium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2017-155	CAMO-17-133051	Tritium
R-50 S1	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-106	CAMO-17-129413	
						2017-155	CAMO-17-132214	Bromide
						2017-217	CAMO-17-142780	Bromide
						2018-129	CAMO-18-150344	Bromide
							CAMO-18-150363	Bromide
						2018-594	CAMO-18-147642	Bromide
						2018-945	CAMO-18-148065	Bromide
			J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-129	CAMO-18-150344	
							CAMO-18-150363	Sulfate
								Sulfate
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-217	CAMO-17-142780	
						2018-129	CAMO-18-150344	Ammonia as Nitrogen
							CAMO-18-150363	Ammonia as Nitrogen
						2018-594	CAMO-18-147642	Ammonia as Nitrogen
								Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-106	CAMO-17-129413	Ammonia as Nitrogen
		EPA:351.2				2017-155	CAMO-17-132214	Ammonia as Nitrogen
			UJ	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2018-594	CAMO-18-147657	
								Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-155	CAMO-17-132214	
								Total Phosphate as Phosphorus

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2018-129	CAMO-18-150344	Total Phosphate as Phosphorus
							CAMO-18-150363	Total Phosphate as Phosphorus
						2018-945	CAMO-18-148065	Total Phosphate as Phosphorus
		SW-846:6010C	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-594	CAMO-18-147642	Total Phosphate as Phosphorus
			J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-106	CAMO-17-129413	Boron Tin Vanadium Zinc
						2017-155	CAMO-17-132214	Vanadium
						2017-217	CAMO-17-142780	Vanadium
						2018-129	CAMO-18-150344	Vanadium Zinc
							CAMO-18-150363	Vanadium Zinc
						2018-594	CAMO-18-147642	Vanadium
						2018-945	CAMO-18-148065	Vanadium Zinc
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-106	CAMO-17-129413	Thallium
						2017-155	CAMO-17-132214	Arsenic
			J-	I6a	The associated matrix spike recovery was below the lower acceptance limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	2018-945	CAMO-18-148065	Chromium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-106	CAMO-17-129317	Total Organic Carbon
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148081	Gross alpha

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
								Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148081	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148081	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148081	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148081	Strontium-90
		Generic:Low_Level_Tritium	J-	R12a	The LCS percent recovery was <the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2017-231	CAMO-17-142312	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148081	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148081	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148081	Uranium-235/236
R-50 S2	INORGANIC	EPA:300.0	J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-129	CAMO-18-150345	Sulfate
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129302	Ammonia as Nitrogen
						2017-217	CAMO-17-141985	Ammonia as Nitrogen
						2018-129	CAMO-18-150345	Ammonia as Nitrogen
						2018-945	CAMO-18-148066	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-156	CAMO-17-132215	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129318	Total Kjeldahl Nitrogen
						2017-156	CAMO-17-132235	Total Kjeldahl Nitrogen

## Data Validation Summary

Data Validation Summary								
Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
			UJ	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2018-594	CAMO-18-147658	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-129	CAMO-18-150345	Total Phosphate as Phosphorus
						2018-945	CAMO-18-148066	Total Phosphate as Phosphorus
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-156	CAMO-17-132215	Total Phosphate as Phosphorus
						2018-594	CAMO-18-147643	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129302	Boron
						2018-945	CAMO-18-148066	Tin
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129302	Chromium
								Nickel
						2017-156	CAMO-17-132215	Chromium
								Nickel
						2017-217	CAMO-17-141985	Chromium
								Nickel
						2018-129	CAMO-18-150345	Chromium
								Nickel
						2018-594	CAMO-18-147643	Arsenic
							Chromium	
				2018-945	CAMO-18-148066	Nickel		
						Chromium		
						Nickel		
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148082	Gross alpha Gross beta

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148082	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148082	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148082	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148082	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2017-161	CAMO-17-132235	Tritium
						2017-231	CAMO-17-142313	Tritium
						2018-106	CAMO-18-148082	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148082	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148082	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-945	CAMO-18-148082	Uranium-235/236
R-61 S1	INORGANIC	EPA:300.0	J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-133	CAMO-18-150346	Chloride
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-656	CAMO-18-147647	Ammonia as Nitrogen
		EPA:351.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-656	CAMO-18-147662	Total Kjeldahl Nitrogen
		EPA:365.4	J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2018-656	CAMO-18-147647	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-100	CAMO-18-148067	Vanadium
						2018-133	CAMO-18-150346	Vanadium
						2018-656	CAMO-18-147647	Vanadium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-100	CAMO-18-148067	Arsenic
		SW-846:6850	J	PE12d	The MS/MSD percent recovery was <10%	2018-100	CAMO-18-148067	Perchlorate
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-100	CAMO-18-148083	Total Organic Carbon
						2018-656	CAMO-18-147662	Total Organic Carbon
R-62	INORGANIC	EPA:160.1	J	I10b	The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package	2017-105	CAMO-17-129303	Total Dissolved Solids
		EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129303	Bromide
						2017-149	CAMO-17-132524	Bromide
						2017-235	CAMO-17-141986	Bromide
						2018-100	CAMO-18-148068	Bromide
		EPA:310.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-149	CAMO-17-132524	Alkalinity-CO3
						2017-235	CAMO-17-141986	Alkalinity-CO3
						2018-100	CAMO-18-148068	Alkalinity-CO3
		EPA:335.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-149	CAMO-17-132526	Cyanide (Total)
						2017-235	CAMO-17-142002	Cyanide (Total)
		EPA:350.1	J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-235	CAMO-17-141986	Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-149	CAMO-17-132524	Ammonia as Nitrogen



## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2018-100	CAMO-18-148068	Ammonia as Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-149	CAMO-17-132524	Total Phosphate as Phosphorus
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-235	CAMO-17-141986	Total Phosphate as Phosphorus
		SM:A2340B	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-100	CAMO-18-148068	Hardness
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129303	Vanadium
						2017-149	CAMO-17-132524	Tin
						2017-235	CAMO-17-141986	Vanadium
						2018-100	CAMO-18-148068	Vanadium
								Strontium
								Tin
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CAMO-17-129303	Selenium
						2018-100	CAMO-18-148068	Arsenic
			J+	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2017-105	CAMO-17-129303	Chromium
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-149	CAMO-17-132524	Arsenic
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-149	CAMO-17-132526	Total Organic Carbon
	ORGANIC	SW-846:8270D	UJ	SV12a	The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-100	CAMO-18-148084	Benzoic Acid
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-100	CAMO-18-148084	Gross alpha

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-100	CAMO-18-148084	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-100	CAMO-18-148084	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-100	CAMO-18-148084	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-100	CAMO-18-148084	Strontium-90
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-100	CAMO-18-148084	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-100	CAMO-18-148084	Plutonium-238 Plutonium-239/240
R-67	INORGANIC	EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-227	CASA-17-142775	Fluoride
						2018-853	CASA-18-147995	Fluoride
			J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-227	CASA-17-142775	Sulfate
		EPA:310.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-227	CASA-17-142775	Alkalinity-CO3
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-147	CASA-17-132338	Ammonia as Nitrogen
						2018-853	CASA-18-147995	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-227	CASA-17-142020	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-147	CASA-17-132325	Total Phosphate as Phosphorus
							CASA-17-132338	Total Phosphate as Phosphorus
						2017-227	CASA-17-142775	Total Phosphate as Phosphorus

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-227	CASA-17-142775	Tin
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CASA-17-129341	Chromium Nickel Selenium
						2017-147	CASA-17-132325	Arsenic Chromium
							CASA-17-132338	Arsenic Chromium
						2017-227	CASA-17-142775	Arsenic Chromium
						2018-853	CASA-18-147995	Arsenic Chromium Nickel
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-105	CASA-17-129346	Total Organic Carbon
						2018-853	CASA-18-148002	Total Organic Carbon
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CASA-18-148002	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CASA-18-148002	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-853	CASA-18-148002	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CASA-18-148002	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CASA-18-148002	Strontium-90
		EPA:906.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CASA-18-148002	Tritium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2017-148	CASA-17-132334	Tritium
							CASA-17-132337	Tritium
						2018-932	CASA-18-148002	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CASA-18-148002	Americium-241
SCI-1	INORGANIC	HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-853	CASA-18-148002	Plutonium-238 Plutonium-239/240
		EPA:335.4	UJ	I6b	The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	2018-888	CASA-18-148003	Cyanide (Total)
		EPA:351.2	U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-888	CASA-18-148003	Total Kjeldahl Nitrogen
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-888	CASA-18-147996	Boron Vanadium Zinc
	ORGANIC	SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-888	CASA-18-147996	Arsenic Chromium
		SW-846:8260B	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-888	CASA-18-148003	Chloroform
	RAD	EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148003	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148003	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148003	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148003	Strontium-90
		Generic:Low_Level_Tritium	NQ	R12a	The LCS percent recovery was <the LAL but >10%. Follow the external laboratory limits located within the associated data package.	2018-932	CASA-18-148003	Tritium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
SCI-2	INORGANIC	HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148003	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148003	Plutonium-238 Plutonium-239/240
		EPA:300.0	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129661	Fluoride
			J+	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-222	CASA-17-142013	Sulfate
		EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-888	CASA-18-148011	Ammonia as Nitrogen
		EPA:351.2	J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-148	CASA-17-132336	Total Kjeldahl Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-888	CASA-18-148004	Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-148	CASA-17-132327	Total Phosphate as Phosphorus
						2017-222	CASA-17-142013	Total Phosphate as Phosphorus
		SW-846:6010C	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129661	Boron Tin Vanadium
						2017-148	CASA-17-132327	Boron Tin Vanadium
						2017-222	CASA-17-142013	Boron Iron Tin Vanadium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2018-888	CASA-18-147997 CASA-18-148011	Vanadium Vanadium Zinc
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129661	Molybdenum
			J	I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5x	2017-101	CASA-17-129661	Uranium
		SW-846:9060	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-101	CASA-17-129662	Total Organic Carbon
						2017-148	CASA-17-132336	Total Organic Carbon
						2017-222	CASA-17-142021	Total Organic Carbon
						2018-888	CASA-18-148004	Total Organic Carbon
							CASA-18-148012	Total Organic Carbon
	ORGANIC	SW-846:8260B	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2018-888	CASA-18-148004 CASA-18-148012	Chloroform Chloroform
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148004 CASA-18-148012	Gross alpha Gross alpha
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148004	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148004	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148004 CASA-18-148012	Sodium-22 Cesium-137 Cobalt-60

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
								Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148012	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148012	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148004 CASA-18-148012	Strontium-90 Strontium-90
		EPA:906.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148004	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148004 CASA-18-148012	Americium-241 Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-888	CASA-18-148004 CASA-18-148012	Plutonium-238 Plutonium-239/240 Plutonium-238 Plutonium-239/240
SIMR-2	INORGANIC	EPA:350.1	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-241	CAMO-17-141987	
						2018-922	CAMO-18-148069	Ammonia as Nitrogen Ammonia as Nitrogen
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2017-154	CAMO-17-132218	Ammonia as Nitrogen
		EPA:351.2	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-103	CAMO-17-129320	
						2017-154	CAMO-17-132238	Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen
		EPA:365.4	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-154	CAMO-17-132218	
						2018-922	CAMO-18-148069	Total Phosphate as Phosphorus Total Phosphate as Phosphorus
			U	I4	the sample result is =<5x the concentration of related analyte in the method blank.	2018-634	CAMO-18-147648	Total Phosphate as Phosphorus
		SW-846:6020	J	J_LAB	The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL	2017-103	CAMO-17-129304	
								Chromium

## Data Validation Summary

Location	Category	Method	Qual	Qual Reason Code	Explanation	COC	Sample	Analyte
						2017-154	CAMO-17-132218	Selenium Thallium
						2017-241	CAMO-17-141987	Chromium
						2018-634	CAMO-18-147648	Chromium
						2018-922	CAMO-18-148069	Chromium Nickel
	RAD	EPA:900	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-922	CAMO-18-148085	Gross alpha Gross beta
		EPA:901.1	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-922	CAMO-18-148085	Cesium-137 Cobalt-60 Neptunium-237
			U	R5,R33	R5: Analyte is not detected because the amount reported is less than the MDC.	2018-922	CAMO-18-148085	Potassium-40
			U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-922	CAMO-18-148085	Sodium-22
		EPA:905.0	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-922	CAMO-18-148085	Strontium-90
		Generic:Low_Level_Tritium	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2017-155	CAMO-17-132238	Tritium
						2017-244	CAMO-17-142314	Tritium
		HASL-300:AM-241	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-922	CAMO-18-148085	Americium-241
		HASL-300:ISOPU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-922	CAMO-18-148085	Plutonium-238 Plutonium-239/240
		HASL-300:ISOU	U	R5	Analyte is not detected because the amount reported is less than the MDC.	2018-922	CAMO-18-148085	Uranium-235/236 Uranium-238