



Your P.O. #: 221027540-7
Your C.O.C. #: n/a

Attention: Chris Finch

Government of Newfoundland and Labrador
Natural Resources Building
50 Elizabeth Ave., P.O. 8700
St. John's, NL
Canada A1B 4J7

Report Date: 2023/12/18
Report #: R7960494
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3AD195

Received: 2023/11/20, 08:20

Sample Matrix: Solid
Samples Received: 197

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Trace Metals by Neutron Activation	197	N/A	2023/12/18	BQL SOP-00001	Neutron Activation
Elements reported in units of percent	197	N/A	2023/12/18	BQL SOP-00004	
Elements reported in units of ppb	197	N/A	2023/12/18	BQL SOP-00004	

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.



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Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Mayank Nigam, Project Manager

Email: Mayank.Nigam@bureauveritas.com

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RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL624	XQL625	XQL626	XQL627	XQL628	XQL629	XQL630		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-1	N23-L02-2	N23-L02-3	N23-L02-4	N23-L02-5	N23-L02-6	N23-L02-7	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.2	31.9	0.3	0.1	<0.1	0.8	82.3	0.1	9082110
Arsenic (As)	ppm	6.8	1.6	<0.5	1.0	<0.5	3.6	29.3	0.5	9082110
Barium (Ba)	ppm	50	720	210	2980	510	720	<50	50	9082110
Cerium (Ce)	ppm	29	49	9	<3	34	28	<3	3	9082110
Cesium (Cs)	ppm	1.6	1.1	15.9	0.8	4.1	1.3	<0.5	0.5	9082110
Chromium (Cr)	ppm	40	<10	10	10	<10	20	40	10	9082110
Cobalt (Co)	ppm	9	<2	25	4	<2	4	3	2	9082110
Europium (Eu)	ppm	<0.5	0.7	1.1	<0.5	1.2	0.8	<0.5	0.5	9082110
Gold (Au)	ppb	1	46	3	190	<1	13	2000	1	9060025
Gold (Au)	ppm	0.001	0.046	0.003	0.189	<0.001	0.013	1.99	0.001	9082110
Hafnium (Hf)	ppm	2	5	1	2	4	3	<1	1	9082110
Iron (Fe)	%	2.1	1.4	7.7	4.8	1.3	4.7	5.7	0.1	9060024
Lanthanum (La)	ppm	12	20	4	2	14	14	1	1	9082110
Lutetium (Lu)	ppm	<0.05	0.55	0.32	0.13	0.43	0.23	0.24	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	12	<1	4	<1	1	9082110
Rubidium (Rb)	ppm	16	131	62	24	36	7	26	5	9082110
Samarium (Sm)	ppm	2.6	5.2	2.2	0.4	3.1	2.5	<0.1	0.1	9082110
Scandium (Sc)	ppm	6.9	7.8	40.5	3.7	8.1	4.5	<0.1	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	7	<1	4	<1	1	9082110
Sodium (Na)	%	0.31	0.11	1.7	0.11	2.3	0.23	<0.05	0.05	9060024
Tantalum (Ta)	ppm	0.6	0.7	<0.2	0.3	0.6	0.3	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	0.8	0.5	<0.5	0.5	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	5.0	7.5	0.7	1.3	5.1	4.0	<0.1	0.1	9082110
Tungsten (W)	ppm	153	1	2	2	<1	5	<1	1	9082110
Uranium (U)	ppm	1.2	1.7	0.3	0.5	1.1	0.9	<0.1	0.1	9082110
Ytterbium (Yb)	ppm	<0.5	3.4	1.8	<0.5	2.1	1.1	3.0	0.5	9082110
Zirconium (Zr)	ppm	<100	200	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL631	XQL632	XQL633	XQL634	XQL635	XQL636	XQL637		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-8	N23-L02-9	N23-L02-10	N23-L02-11	N23-L02-12	N23-L02-13	N23-L02-14	RDL	QC Batch
Bromine	ppm	<1	3	<1	<1	<1	1	2	1	9082110
Antimony (Sb)	ppm	18.3	2.3	1.4	3.4	0.4	13.7	2.4	0.1	9082110
Arsenic (As)	ppm	56.0	923	16.9	54.3	7.6	339	971	0.5	9082110
Barium (Ba)	ppm	<50	620	400	430	290	190	680	50	9082110
Cerium (Ce)	ppm	<3	15	25	<3	16	20	<3	3	9082110
Cesium (Cs)	ppm	<0.5	<0.5	0.9	<0.5	0.9	<0.5	0.6	0.5	9082110
Chromium (Cr)	ppm	<10	<10	<10	<10	40	<10	<10	10	9082110
Cobalt (Co)	ppm	<2	5	<2	6	20	11	4	2	9082110
Europium (Eu)	ppm	<0.5	0.9	1.0	<0.5	<0.5	<0.5	0.8	0.5	9082110
Gold (Au)	ppb	980	<1	3	25	<1	30	6	1	9060025
Gold (Au)	ppm	0.982	<0.001	0.003	0.025	<0.001	0.030	0.006	0.001	9082110
Hafnium (Hf)	ppm	<1	2	2	<1	1	2	2	1	9082110
Iron (Fe)	%	7.4	2.4	1.1	3.1	5.3	13	2.5	0.1	9060024
Lanthanum (La)	ppm	<1	7	9	2	10	9	7	1	9082110
Lutetium (Lu)	ppm	<0.05	0.45	0.36	0.14	0.30	0.53	0.31	0.05	9082110
Molybdenum (Mo)	ppm	7	<1	<1	22	20	<1	<1	1	9082110
Rubidium (Rb)	ppm	13	60	55	26	27	19	65	5	9082110
Samarium (Sm)	ppm	<0.1	2.4	3.7	0.8	2.8	3.5	2.5	0.1	9082110
Scandium (Sc)	ppm	<0.1	14.5	12.8	7.9	33.2	17.6	14.6	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	<0.05	0.20	1.5	0.08	0.59	1.5	0.20	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	0.6	<0.5	0.6	0.7	<0.5	0.5	9082110
Thorium (Th)	ppm	<0.1	2.2	1.6	1.0	1.5	2.2	2.3	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	3	<1	<1	1	9082110
Uranium (U)	ppm	0.2	0.9	2.3	0.4	0.8	0.8	0.8	0.1	9082110
Ytterbium (Yb)	ppm	<0.5	3.6	2.0	1.0	1.9	4.0	3.4	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL638	XQL639	XQL640	XQL641	XQL642	XQL643	XQL644		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-15	N23-L02-16	N23-L02-17	N23-L02-18	N23-L02-19	N23-L02-20	N23-L02-21	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.5	1.6	0.7	0.2	0.3	0.3	0.3	0.1	9082110
Arsenic (As)	ppm	10.7	23.7	7.4	1.0	0.9	1.4	0.9	0.5	9082110
Barium (Ba)	ppm	560	610	540	130	160	250	170	50	9082110
Cerium (Ce)	ppm	14	13	23	15	20	20	17	3	9082110
Cesium (Cs)	ppm	0.6	<0.5	<0.5	0.6	0.7	<0.5	0.8	0.5	9082110
Chromium (Cr)	ppm	10	<10	10	<10	<10	<10	<10	10	9082110
Cobalt (Co)	ppm	<2	13	10	3	3	<2	<2	2	9082110
Europium (Eu)	ppm	<0.5	0.6	<0.5	<0.5	0.9	<0.5	<0.5	0.5	9082110
Gold (Au)	ppb	6	8	6	1	<1	<1	<1	1	9060025
Gold (Au)	ppm	0.006	0.008	0.006	0.001	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	3	2	2	2	3	3	3	1	9082110
Iron (Fe)	%	1.3	4.7	4.2	2.6	1.1	1.6	1.5	0.1	9060024
Lanthanum (La)	ppm	5	7	8	6	8	8	7	1	9082110
Lutetium (Lu)	ppm	0.51	0.41	0.41	0.42	0.50	0.49	0.51	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	66	45	36	21	23	25	29	5	9082110
Samarium (Sm)	ppm	2.3	2.4	2.7	2.4	2.9	3.0	2.8	0.1	9082110
Scandium (Sc)	ppm	20.3	16.1	16.4	12.7	8.4	8.8	9.3	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	1.3	0.16	2.2	2.9	2.7	2.1	2.4	0.05	9060024
Tantalum (Ta)	ppm	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	0.2	9082110
Terbium (Tb)	ppm	0.6	0.6	0.5	0.6	0.7	0.6	0.6	0.5	9082110
Thorium (Th)	ppm	2.3	1.8	1.9	1.3	2.5	2.4	2.4	0.1	9082110
Tungsten (W)	ppm	<1	<1	1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	1.0	0.7	0.9	0.7	1.2	1.2	0.9	0.1	9082110
Ytterbium (Yb)	ppm	2.9	2.4	2.7	2.7	2.3	2.9	2.2	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL645	XQL646	XQL647	XQL648	XQL649	XQL650	XQL651		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-22	N23-L02-23	N23-L02-24	N23-L02-25	N23-L02-26	N23-L02-27	N23-L02-28	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.4	0.1	0.5	0.4	0.3	0.2	0.3	0.1	9082110
Arsenic (As)	ppm	1.8	5.6	1.0	3.6	3.2	3.0	5.1	0.5	9082110
Barium (Ba)	ppm	290	<50	6220	100	150	300	410	50	9082110
Cerium (Ce)	ppm	16	15	464	36	24	25	55	3	9082110
Cesium (Cs)	ppm	0.7	<0.5	<0.5	<0.5	<0.5	0.6	3.9	0.5	9082110
Chromium (Cr)	ppm	<10	<10	190	40	240	230	310	10	9082110
Cobalt (Co)	ppm	3	6	19	41	32	31	30	2	9082110
Europium (Eu)	ppm	<0.5	0.6	8.3	1.7	<0.5	<0.5	1.4	0.5	9082110
Gold (Au)	ppb	2	6	<1	<1	<1	<1	<1	1	9060025
Gold (Au)	ppm	0.002	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	2	3	16	4	1	1	2	1	9082110
Iron (Fe)	%	1.9	3.4	7.3	7.2	4.8	3.9	6.3	0.1	9060024
Lanthanum (La)	ppm	8	7	225	15	13	11	24	1	9082110
Lutetium (Lu)	ppm	0.38	0.45	0.63	0.35	0.20	0.09	0.22	0.05	9082110
Molybdenum (Mo)	ppm	<1	5	6	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	30	10	76	<5	8	23	61	5	9082110
Samarium (Sm)	ppm	2.9	2.8	31.3	4.9	2.9	2.4	5.2	0.1	9082110
Scandium (Sc)	ppm	9.9	10.0	14.2	26.9	33.1	32.9	39.3	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	1.6	2.7	2.9	1.9	1.9	1.4	1.1	0.05	9060024
Tantalum (Ta)	ppm	<0.2	0.2	1.2	0.7	<0.2	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	0.6	0.6	2.3	0.8	<0.5	<0.5	0.6	0.5	9082110
Thorium (Th)	ppm	2.2	2.3	24.3	2.4	3.3	2.9	7.4	0.1	9082110
Tungsten (W)	ppm	<1	1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	1.0	1.1	5.3	0.8	2.7	3.8	0.8	0.1	9082110
Ytterbium (Yb)	ppm	2.2	2.6	3.2	2.5	1.6	1.4	1.4	0.5	9082110
Zirconium (Zr)	ppm	<100	200	800	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL652	XQL653	XQL654	XQL655	XQL656	XQL657	XQL658		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-29	N23-L02-30	N23-L02-31	N23-L02-32	N23-L02-33	N23-L02-34	N23-L02-35	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.5	0.5	2.3	0.6	0.6	10.0	0.5	0.1	9082110
Arsenic (As)	ppm	31.3	15.2	8.6	36.9	40.1	33.5	6.0	0.5	9082110
Barium (Ba)	ppm	240	120	200	550	280	70	480	50	9082110
Cerium (Ce)	ppm	14	10	18	<3	18	27	17	3	9082110
Cesium (Cs)	ppm	<0.5	0.7	<0.5	<0.5	0.5	0.6	0.6	0.5	9082110
Chromium (Cr)	ppm	<10	<10	<10	<10	10	30	<10	10	9082110
Cobalt (Co)	ppm	4	3	5	<2	5	15	10	2	9082110
Europium (Eu)	ppm	0.8	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	0.5	9082110
Gold (Au)	ppb	3	7	3	27	3	10	2	1	9060025
Gold (Au)	ppm	0.003	0.007	0.003	0.027	0.003	0.010	0.002	0.001	9082110
Hafnium (Hf)	ppm	3	2	2	2	3	2	3	1	9082110
Iron (Fe)	%	4.7	3.8	3.2	1.5	5.1	8.5	5.8	0.1	9060024
Lanthanum (La)	ppm	8	4	8	4	7	14	10	1	9082110
Lutetium (Lu)	ppm	0.40	0.32	0.43	0.42	0.32	0.36	0.50	0.05	9082110
Molybdenum (Mo)	ppm	<1	3	<1	3	<1	2	<1	1	9082110
Rubidium (Rb)	ppm	30	17	23	39	36	8	47	5	9082110
Samarium (Sm)	ppm	2.5	1.7	2.9	1.8	2.6	4.0	2.8	0.1	9082110
Scandium (Sc)	ppm	16.6	16.2	17.1	7.0	14.9	16.9	16.5	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	4	<1	1	9082110
Sodium (Na)	%	1.5	2.1	1.6	0.57	1.4	1.1	1.1	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	<0.2	0.3	0.2	0.3	<0.2	0.2	9082110
Terbium (Tb)	ppm	0.5	<0.5	0.8	<0.5	<0.5	0.8	0.6	0.5	9082110
Thorium (Th)	ppm	2.0	1.3	1.8	0.9	2.1	2.3	1.9	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.8	0.6	0.7	0.7	0.9	3.4	0.9	0.1	9082110
Ytterbium (Yb)	ppm	2.4	1.8	3.1	2.1	1.8	2.1	2.2	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL659	XQL660	XQL661	XQL662	XQL663	XQL664	XQL665		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-36	N23-L02-37	N23-L02-38	N23-L02-39	N23-L02-40	N23-L02-41	N23-L02-42	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.7	2.1	2.5	2.1	0.2	0.1	0.7	0.1	9082110
Arsenic (As)	ppm	39.4	39.4	4.1	87.4	1.5	2.6	33.7	0.5	9082110
Barium (Ba)	ppm	110	460	130	190	260	120	290	50	9082110
Cerium (Ce)	ppm	14	16	19	9	9	16	12	3	9082110
Cesium (Cs)	ppm	0.6	0.8	0.9	0.5	<0.5	<0.5	0.5	0.5	9082110
Chromium (Cr)	ppm	10	10	<10	20	30	270	<10	10	9082110
Cobalt (Co)	ppm	6	7	3	12	24	34	5	2	9082110
Europium (Eu)	ppm	0.8	0.7	0.7	0.8	1.2	<0.5	<0.5	0.5	9082110
Gold (Au)	ppb	8	46	<1	59	<1	<1	11	1	9060025
Gold (Au)	ppm	0.008	0.046	<0.001	0.059	<0.001	<0.001	0.011	0.001	9082110
Hafnium (Hf)	ppm	3	2	3	2	1	1	2	1	9082110
Iron (Fe)	%	2.7	4.7	1.5	2.4	12	6.3	1.8	0.1	9060024
Lanthanum (La)	ppm	7	8	8	6	7	9	6	1	9082110
Lutetium (Lu)	ppm	0.35	0.32	0.44	0.32	0.25	0.20	0.28	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	2	<1	<1	3	1	9082110
Rubidium (Rb)	ppm	24	48	26	42	42	8	30	5	9082110
Samarium (Sm)	ppm	2.7	2.1	3.0	2.2	2.6	3.0	2.3	0.1	9082110
Scandium (Sc)	ppm	15.6	12.8	8.8	18.8	32.3	38.8	13.7	0.1	9082110
Selenium (Se)	ppm	<1	3	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	2.3	0.38	1.6	1.4	0.85	1.6	2.4	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	0.2	9082110
Terbium (Tb)	ppm	0.6	<0.5	0.6	<0.5	<0.5	0.6	0.6	0.5	9082110
Thorium (Th)	ppm	2.0	1.3	1.9	1.5	1.2	2.0	1.8	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	1	<1	<1	<1	1	9082110
Uranium (U)	ppm	1.7	0.7	1.1	0.6	0.7	0.5	0.7	0.1	9082110
Ytterbium (Yb)	ppm	2.7	2.0	2.6	2.1	1.4	1.4	1.9	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL666	XQL667	XQL668	XQL669	XQL670	XQL671	XQL672		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-43	N23-L02-44	N23-L02-45	N23-L02-46	N23-L02-47	N23-L02-48	N23-L02-49	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	2.2	0.3	0.1	0.3	0.3	0.5	0.2	0.1	9082110
Arsenic (As)	ppm	1.8	12.2	3.3	7.8	5.0	11.6	3.1	0.5	9082110
Barium (Ba)	ppm	800	160	400	460	2020	1090	1330	50	9082110
Cerium (Ce)	ppm	16	20	22	7	48	45	41	3	9082110
Cesium (Cs)	ppm	0.6	<0.5	0.5	7.6	0.7	2.2	0.7	0.5	9082110
Chromium (Cr)	ppm	280	20	<10	470	<10	10	10	10	9082110
Cobalt (Co)	ppm	27	5	<2	34	<2	<2	<2	2	9082110
Europium (Eu)	ppm	1.0	<0.5	<0.5	<0.5	0.9	0.7	<0.5	0.5	9082110
Gold (Au)	ppb	<1	2	<1	1	<1	13	<1	1	9060025
Gold (Au)	ppm	<0.001	0.002	<0.001	0.001	<0.001	0.013	<0.001	0.001	9082110
Hafnium (Hf)	ppm	1	2	3	1	3	3	3	1	9082110
Iron (Fe)	%	4.3	2.8	2.2	7.9	1.3	1.3	1.3	0.1	9060024
Lanthanum (La)	ppm	7	9	10	7	28	25	25	1	9082110
Lutetium (Lu)	ppm	0.18	0.36	0.49	0.13	0.22	0.25	0.22	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	19	10	25	116	45	59	67	5	9082110
Samarium (Sm)	ppm	2.6	2.8	3.9	1.9	3.3	2.8	2.6	0.1	9082110
Scandium (Sc)	ppm	39.8	14.5	13.3	53.1	3.9	3.9	4.0	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	1.6	3.1	2.2	0.39	2.3	0.39	2.3	0.05	9060024
Tantalum (Ta)	ppm	0.4	0.2	0.3	<0.2	0.4	0.3	0.4	0.2	9082110
Terbium (Tb)	ppm	<0.5	0.7	0.8	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	1.0	2.0	3.0	1.9	9.0	8.5	8.8	0.1	9082110
Tungsten (W)	ppm	1	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.7	0.8	1.1	<0.1	3.3	2.7	2.7	0.1	9082110
Ytterbium (Yb)	ppm	1.5	2.2	3.0	1.2	1.0	1.1	1.1	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL673	XQL674	XQL675	XQL676	XQL677	XQL678	XQL679		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-50	N23-L02-51	N23-L02-52	N23-L02-53	N23-L02-54	N23-L02-55	N23-L02-56	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	1	<1	1	9082110
Antimony (Sb)	ppm	0.3	1.1	1.7	0.5	5.2	1.8	0.2	0.1	9082110
Arsenic (As)	ppm	10.7	210	54.0	11.4	21.2	399	0.8	0.5	9082110
Barium (Ba)	ppm	660	320	130	1070	17700	1290	80	50	9082110
Cerium (Ce)	ppm	10	35	9	35	<3	33	<3	3	9082110
Cesium (Cs)	ppm	0.9	0.6	<0.5	2.1	0.6	<0.5	0.6	0.5	9082110
Chromium (Cr)	ppm	30	10	<10	<10	40	<10	<10	10	9082110
Cobalt (Co)	ppm	11	<2	12	<2	3	<2	33	2	9082110
Europium (Eu)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Gold (Au)	ppb	3	6	4	12	60	36	2	1	9060025
Gold (Au)	ppm	0.003	0.006	0.004	0.012	0.060	0.036	0.002	0.001	9082110
Hafnium (Hf)	ppm	<1	5	1	3	2	1	<1	1	9082110
Iron (Fe)	%	5.0	3.9	4.0	1.1	5.8	4.7	7.7	0.1	9060024
Lanthanum (La)	ppm	5	19	5	23	4	20	2	1	9082110
Lutetium (Lu)	ppm	0.18	0.72	0.19	0.20	<0.05	0.14	0.14	0.05	9082110
Molybdenum (Mo)	ppm	8	<1	<1	<1	136	52	<1	1	9082110
Rubidium (Rb)	ppm	35	30	14	58	8	28	14	5	9082110
Samarium (Sm)	ppm	1.6	5.0	1.9	2.7	0.9	2.2	1.3	0.1	9082110
Scandium (Sc)	ppm	22.1	10.5	20.8	3.7	2.7	2.7	38.1	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	0.14	1.7	2.6	0.38	<0.05	0.07	3.2	0.05	9060024
Tantalum (Ta)	ppm	<0.2	0.6	<0.2	0.4	<0.2	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	2.7	4.6	0.8	8.2	1.2	6.0	0.6	0.1	9082110
Tungsten (W)	ppm	3	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.8	3.5	1.4	2.6	1.6	2.2	0.4	0.1	9082110
Ytterbium (Yb)	ppm	1.3	4.3	1.5	0.7	<0.5	0.8	0.9	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL680	XQL681	XQL682	XQL683	XQL684	XQL685	XQL686		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-57	N23-L02-58	N23-L02-59	N23-L02-60	N23-L02-61	N23-L02-62	N23-L02-63	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	1	1	9082110
Antimony (Sb)	ppm	0.2	0.4	3.5	0.6	0.5	8.8	0.5	0.1	9082110
Arsenic (As)	ppm	1.3	22.0	70.0	2.5	35.0	283	1.3	0.5	9082110
Barium (Ba)	ppm	150	380	690	420	300	1420	6070	50	9082110
Cerium (Ce)	ppm	6	9	11	21	18	<3	427	3	9082110
Cesium (Cs)	ppm	0.9	<0.5	1.1	1.0	0.5	1.0	0.6	0.5	9082110
Chromium (Cr)	ppm	20	50	<10	<10	<10	40	180	10	9082110
Cobalt (Co)	ppm	25	18	13	8	3	13	18	2	9082110
Europium (Eu)	ppm	0.5	<0.5	<0.5	0.9	1.0	<0.5	6.3	0.5	9082110
Gold (Au)	ppb	<1	8	23	2	15	55	<1	1	9060025
Gold (Au)	ppm	<0.001	0.008	0.023	0.002	0.015	0.055	<0.001	0.001	9082110
Hafnium (Hf)	ppm	<1	<1	3	3	2	<1	16	1	9082110
Iron (Fe)	%	5.9	8.6	1.6	2.5	1.7	3.8	6.4	0.1	9060024
Lanthanum (La)	ppm	3	3	6	10	7	6	206	1	9082110
Lutetium (Lu)	ppm	0.17	0.10	0.26	0.47	0.40	0.08	0.47	0.05	9082110
Molybdenum (Mo)	ppm	<1	16	<1	<1	<1	10	6	1	9082110
Rubidium (Rb)	ppm	34	<5	65	51	44	49	68	5	9082110
Samarium (Sm)	ppm	1.3	1.0	2.2	3.4	3.2	1.5	29.7	0.1	9082110
Scandium (Sc)	ppm	29.3	20.2	16.6	14.3	10.9	20.7	13.5	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	1.6	0.11	0.27	0.40	0.57	0.08	2.7	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.1	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	0.7	0.7	<0.5	2.3	0.5	9082110
Thorium (Th)	ppm	0.4	1.7	1.7	2.4	1.8	1.7	23.4	0.1	9082110
Tungsten (W)	ppm	<1	3	2	<1	<1	2	<1	1	9082110
Uranium (U)	ppm	0.5	0.7	0.8	1.2	0.8	0.8	5.1	0.1	9082110
Ytterbium (Yb)	ppm	0.8	0.6	1.9	2.8	2.5	1.0	1.5	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	400	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL687	XQL688	XQL689	XQL690	XQL691	XQL692	XQL693		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-64	N23-L02-65	N23-L02-66	N23-L02-67	N23-L02-68	N23-L02-69	N23-L02-70	RDL	QC Batch
Bromine	ppm	<1	<1	1	<1	2	<1	<1	1	9082110
Antimony (Sb)	ppm	2.3	4.1	0.3	0.5	0.2	0.1	0.1	0.1	9082110
Arsenic (As)	ppm	118	7.9	2.1	3.1	3.4	9.0	6.2	0.5	9082110
Barium (Ba)	ppm	580	560	1060	250	680	1180	270	50	9082110
Cerium (Ce)	ppm	23	14	35	15	40	26	23	3	9082110
Cesium (Cs)	ppm	1.7	1.1	0.6	<0.5	0.9	0.5	0.9	0.5	9082110
Chromium (Cr)	ppm	80	<10	<10	<10	20	40	460	10	9082110
Cobalt (Co)	ppm	36	57	111	2	162	26	42	2	9082110
Europium (Eu)	ppm	1.1	1.4	<0.5	0.9	1.5	1.1	0.8	0.5	9082110
Gold (Au)	ppb	19	5	<1	<1	<1	2	<1	1	9060025
Gold (Au)	ppm	0.019	0.005	<0.001	<0.001	<0.001	0.002	<0.001	0.001	9082110
Hafnium (Hf)	ppm	1	2	<1	3	<1	2	1	1	9082110
Iron (Fe)	%	6.6	11	2.8	1.4	1.9	8.2	6.7	0.1	9060024
Lanthanum (La)	ppm	13	7	23	8	19	13	9	1	9082110
Lutetium (Lu)	ppm	0.29	0.67	0.28	0.49	0.60	0.25	0.31	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	64	50	41	32	36	17	14	5	9082110
Samarium (Sm)	ppm	2.9	3.7	3.2	3.1	4.9	3.0	3.0	0.1	9082110
Scandium (Sc)	ppm	38.1	40.9	12.0	10.3	12.3	31.7	38.8	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	2	3	1	9082110
Sodium (Na)	%	0.17	1.1	2.5	2.2	3.0	1.2	2.3	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	0.4	0.3	0.4	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	1.0	<0.5	0.8	0.9	<0.5	0.5	0.5	9082110
Thorium (Th)	ppm	2.5	0.5	7.7	2.1	5.1	3.0	2.5	0.1	9082110
Tungsten (W)	ppm	2	4	342	<1	543	<1	<1	1	9082110
Uranium (U)	ppm	0.8	1.7	2.4	0.9	1.5	0.9	0.6	0.1	9082110
Ytterbium (Yb)	ppm	1.4	4.5	1.3	2.9	2.9	1.2	1.4	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL694	XQL695	XQL696	XQL697	XQL698	XQL699	XQL700		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-71	N23-L02-72	N23-L02-73	N23-L02-74	N23-L02-75	N23-L02-76	N23-L02-77	RDL	QC Batch
Bromine	ppm	<1	<1	2	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.6	0.2	0.2	0.5	0.3	0.4	0.4	0.1	9082110
Arsenic (As)	ppm	22.8	4.1	3.4	8.4	45.0	4.9	5.3	0.5	9082110
Barium (Ba)	ppm	420	2110	680	150	140	700	840	50	9082110
Cerium (Ce)	ppm	21	52	40	<3	<3	49	36	3	9082110
Cesium (Cs)	ppm	1.2	1.0	1.1	0.6	<0.5	0.8	0.7	0.5	9082110
Chromium (Cr)	ppm	400	<10	<10	30	10	10	<10	10	9082110
Cobalt (Co)	ppm	91	15	153	19	43	12	15	2	9082110
Europium (Eu)	ppm	1.0	1.5	1.3	0.8	<0.5	1.4	1.4	0.5	9082110
Gold (Au)	ppb	25	<1	<1	12	24	<1	<1	1	9060025
Gold (Au)	ppm	0.025	<0.001	<0.001	0.012	0.024	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	2	3	<1	<1	<1	3	2	1	9082110
Iron (Fe)	%	14	6.3	1.8	7.2	14	5.8	5.5	0.1	9060024
Lanthanum (La)	ppm	8	27	17	2	1	24	21	1	9082110
Lutetium (Lu)	ppm	0.21	0.37	0.54	0.18	0.16	0.43	0.36	0.05	9082110
Molybdenum (Mo)	ppm	2	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	46	40	34	28	25	46	31	5	9082110
Samarium (Sm)	ppm	2.5	5.3	4.7	1.1	1.0	5.4	4.6	0.1	9082110
Scandium (Sc)	ppm	30.5	22.1	11.6	31.4	27.1	30.2	26.1	0.1	9082110
Selenium (Se)	ppm	19	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	1.1	1.4	2.9	2.5	0.15	2.1	1.7	0.05	9060024
Tantalum (Ta)	ppm	<0.2	0.2	0.4	<0.2	<0.2	0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	0.7	0.9	<0.5	<0.5	0.9	0.7	0.5	9082110
Thorium (Th)	ppm	1.9	6.7	4.7	0.4	0.3	6.2	4.7	0.1	9082110
Tungsten (W)	ppm	<1	<1	523	2	1	<1	<1	1	9082110
Uranium (U)	ppm	0.3	1.8	1.4	0.5	0.5	1.8	1.5	0.1	9082110
Ytterbium (Yb)	ppm	<0.5	1.6	2.7	<0.5	<0.5	2.7	2.2	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL701	XQL702	XQL703	XQL704	XQL705	XQL706	XQL707		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-78	N23-L02-79	N23-L02-80	N23-L02-81	N23-L02-82	N23-L02-83	N23-L02-84	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.6	0.4	0.1	1.1	2.1	2.1	0.4	0.1	9082110
Arsenic (As)	ppm	15.4	21.8	10.6	45.6	48.0	1.8	2.1	0.5	9082110
Barium (Ba)	ppm	5820	450	740	470	5400	800	680	50	9082110
Cerium (Ce)	ppm	21	23	25	17	18	12	61	3	9082110
Cesium (Cs)	ppm	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	0.7	0.5	9082110
Chromium (Cr)	ppm	180	<10	20	<10	<10	280	<10	10	9082110
Cobalt (Co)	ppm	24	19	21	20	14	27	<2	2	9082110
Europium (Eu)	ppm	0.9	0.8	0.8	<0.5	<0.5	1.4	1.2	0.5	9082110
Gold (Au)	ppb	9	3	3	26	35	<1	<1	1	9060025
Gold (Au)	ppm	0.009	0.003	0.003	0.026	0.035	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	<1	2	2	1	2	2	4	1	9082110
Iron (Fe)	%	7.2	6.0	7.4	5.8	19	4.4	1.9	0.1	9060024
Lanthanum (La)	ppm	11	11	13	8	5	7	27	1	9082110
Lutetium (Lu)	ppm	0.19	0.26	0.26	0.21	0.46	0.18	0.53	0.05	9082110
Molybdenum (Mo)	ppm	12	9	<1	1	428	<1	<1	1	9082110
Rubidium (Rb)	ppm	6	28	<5	47	<5	15	46	5	9082110
Samarium (Sm)	ppm	2.7	2.7	3.1	1.9	1.3	2.5	6.0	0.1	9082110
Scandium (Sc)	ppm	22.9	27.3	29.3	28.4	6.0	38.8	11.3	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	0.29	0.95	1.4	0.13	0.08	1.5	1.1	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	0.3	0.2	9082110
Terbium (Tb)	ppm	<0.5	0.5	0.5	<0.5	0.5	0.5	0.9	0.5	9082110
Thorium (Th)	ppm	1.6	2.7	2.3	2.3	2.7	0.9	7.7	0.1	9082110
Tungsten (W)	ppm	1	2	3	2	<1	1	<1	1	9082110
Uranium (U)	ppm	0.5	0.9	0.7	0.9	3.8	0.7	2.3	0.1	9082110
Ytterbium (Yb)	ppm	1.2	1.4	1.6	1.1	1.6	1.3	3.5	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL708	XQL709	XQL710	XQL711	XQL712	XQL713	XQL714		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-85	N23-L02-86	N23-L02-87	N23-L02-88	N23-L02-89	N23-L02-90	N23-L02-91	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.6	2.8	0.9	0.4	0.2	0.4	0.4	0.1	9082110
Arsenic (As)	ppm	10.3	101	12.4	36.2	2.0	19.0	11.5	0.5	9082110
Barium (Ba)	ppm	870	3460	1310	70	160	110	400	50	9082110
Cerium (Ce)	ppm	60	65	21	61	6	<3	12	3	9082110
Cesium (Cs)	ppm	0.9	1.0	1.5	0.9	0.9	1.1	1.1	0.5	9082110
Chromium (Cr)	ppm	10	<10	<10	30	<10	20	20	10	9082110
Cobalt (Co)	ppm	<2	<2	20	3	25	26	4	2	9082110
Europium (Eu)	ppm	1.4	1.3	0.7	2.0	<0.5	<0.5	<0.5	0.5	9082110
Gold (Au)	ppb	2	9	18	4	1	5	10	1	9060025
Gold (Au)	ppm	0.002	0.009	0.018	0.004	0.001	0.005	0.010	0.001	9082110
Hafnium (Hf)	ppm	4	4	1	4	1	<1	2	1	9082110
Iron (Fe)	%	1.6	1.0	5.3	7.5	6.5	5.6	3.0	0.1	9060024
Lanthanum (La)	ppm	26	31	12	31	3	3	7	1	9082110
Lutetium (Lu)	ppm	0.57	0.59	0.22	0.75	0.21	0.23	0.36	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	1	1	9082110
Rubidium (Rb)	ppm	55	59	57	<5	25	18	41	5	9082110
Samarium (Sm)	ppm	6.2	6.6	2.8	7.7	1.5	1.4	2.4	0.1	9082110
Scandium (Sc)	ppm	10.1	12.2	23.6	21.3	30.7	30.7	10.0	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	0.60	0.23	0.72	0.18	1.2	1.2	0.36	0.05	9060024
Tantalum (Ta)	ppm	0.3	0.3	<0.2	0.2	<0.2	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	1.0	0.9	<0.5	1.7	<0.5	<0.5	0.5	0.5	9082110
Thorium (Th)	ppm	7.4	7.1	3.6	7.3	0.4	0.4	1.7	0.1	9082110
Tungsten (W)	ppm	<1	2	<1	2	<1	<1	<1	1	9082110
Uranium (U)	ppm	2.4	2.5	1.4	2.5	0.4	0.5	0.8	0.1	9082110
Ytterbium (Yb)	ppm	3.2	3.3	1.3	4.3	1.4	1.2	2.3	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL715	XQL716	XQL717	XQL718	XQL719	XQL720	XQL721		
Sampling Date										
COC Number		n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-92	N23-L02-93	N23-L02-94	N23-L02-95	N23-L02-96	N23-L02-97	N23-L02-98	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.7	0.4	0.7	0.5	0.3	<0.1	0.3	0.1	9082110
Arsenic (As)	ppm	3.1	36.8	13.3	19.2	2.5	<0.5	4.8	0.5	9082110
Barium (Ba)	ppm	150	90	340	270	1530	100	60	50	9082110
Cerium (Ce)	ppm	25	59	30	11	40	9	14	3	9082110
Cesium (Cs)	ppm	1.2	1.1	<0.5	<0.5	1.3	<0.5	<0.5	0.5	9082110
Chromium (Cr)	ppm	180	30	<10	<10	10	350	10	10	9082110
Cobalt (Co)	ppm	26	3	31	12	7	50	6	2	9082110
Europium (Eu)	ppm	<0.5	1.7	0.7	0.8	1.1	1.1	1.4	0.5	9082110
Gold (Au)	ppb	2	4	83	5	<1	<1	<1	1	9060025
Gold (Au)	ppm	0.002	0.004	0.083	0.005	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	2	4	2	2	3	1	<1	1	9082110
Iron (Fe)	%	5.8	7.4	7.0	2.9	3.7	8.1	32	0.1	9060024
Lanthanum (La)	ppm	12	29	14	5	19	5	19	1	9082110
Lutetium (Lu)	ppm	0.30	0.66	0.35	0.35	0.33	0.25	0.32	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	6	<1	<1	<1	19	1	9082110
Rubidium (Rb)	ppm	20	<5	26	24	58	5	<5	5	9082110
Samarium (Sm)	ppm	2.8	7.1	3.9	2.5	4.3	2.7	4.2	0.1	9082110
Scandium (Sc)	ppm	29.9	20.9	15.6	7.3	19.2	48.3	1.8	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	2.3	0.18	0.20	1.9	0.69	1.6	<0.05	0.05	9060024
Tantalum (Ta)	ppm	<0.2	0.4	<0.2	0.2	<0.2	0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	1.4	0.6	0.6	0.6	0.6	0.8	0.5	9082110
Thorium (Th)	ppm	3.5	7.0	1.7	1.0	5.1	0.3	0.3	0.1	9082110
Tungsten (W)	ppm	<1	1	1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.8	2.4	0.8	0.9	1.6	<0.1	0.4	0.1	9082110
Ytterbium (Yb)	ppm	1.7	4.2	2.1	1.8	1.6	1.6	2.0	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL722	XQL723	XQL724	XQL725	XQL726	XQL727		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-99	N23-L02-100	N23-L02-101	N23-L02-102	N23-L02-103	N23-L02-104	RDL	QC Batch
Bromine	ppm	<1	25	49	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	<0.1	5.8	5.9	<0.1	<0.1	<0.1	0.1	9082110
Arsenic (As)	ppm	<0.5	12.2	25.2	1.1	1.0	3.5	0.5	9082110
Barium (Ba)	ppm	140	970	740	400	790	750	50	9082110
Cerium (Ce)	ppm	5	48	42	5	18	99	3	9082110
Cesium (Cs)	ppm	<0.5	2.5	8.2	0.7	1.6	0.7	0.5	9082110
Chromium (Cr)	ppm	410	100	100	<10	1520	20	10	9082110
Cobalt (Co)	ppm	74	<2	<2	2	20	<2	2	9082110
Europium (Eu)	ppm	0.7	0.8	0.6	<0.5	0.6	<0.5	0.5	9082110
Gold (Au)	ppb	2	4	6	<1	<1	<1	1	9060025
Gold (Au)	ppm	0.002	0.004	0.006	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	1	2	2	1	2	3	1	9082110
Iron (Fe)	%	8.0	0.5	0.7	0.5	1.7	0.5	0.1	9060024
Lanthanum (La)	ppm	3	28	27	3	7	57	1	9082110
Lutetium (Lu)	ppm	0.12	<0.05	0.16	<0.05	0.10	<0.05	0.05	9082110
Molybdenum (Mo)	ppm	<1	65	93	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	<5	127	111	57	112	45	5	9082110
Samarium (Sm)	ppm	1.9	3.2	2.9	0.4	2.2	3.6	0.1	9082110
Scandium (Sc)	ppm	29.9	10.2	9.4	0.1	18.1	0.8	0.1	9082110
Selenium (Se)	ppm	<1	<1	3	<1	<1	<1	1	9082110
Sodium (Na)	%	1.1	0.34	0.25	2.1	1.4	1.6	0.05	9060024
Tantalum (Ta)	ppm	<0.2	0.9	0.6	<0.2	0.9	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	<0.1	4.0	5.1	1.7	4.6	20.5	0.1	9082110
Tungsten (W)	ppm	<1	3	3	<1	<1	<1	1	9082110
Uranium (U)	ppm	<0.1	2.5	3.1	0.3	0.7	0.6	0.1	9082110
Ytterbium (Yb)	ppm	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	100	9082110
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL728	XQL729	XQL730	XQL731	XQL732	XQL733		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-105	N23-L02-106	N23-L02-107	N23-L02-108	N23-L02-109	N23-L02-110	RDL	QC Batch
Bromine	ppm	<1	1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.3	<0.1	0.2	<0.1	<0.1	<0.1	0.1	9082110
Arsenic (As)	ppm	4.5	<0.5	20.2	<0.5	<0.5	<0.5	0.5	9082110
Barium (Ba)	ppm	50	170	70	300	250	310	50	9082110
Cerium (Ce)	ppm	12	10	37	7	4	4	3	9082110
Cesium (Cs)	ppm	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Chromium (Cr)	ppm	30	360	2410	30	60	10	10	9082110
Cobalt (Co)	ppm	7	50	128	7	13	3	2	9082110
Europium (Eu)	ppm	1.3	1.1	2.3	0.7	0.6	0.9	0.5	9082110
Gold (Au)	ppb	<1	2	<1	<1	<1	<1	1	9060025
Gold (Au)	ppm	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	<1	1	4	<1	<1	<1	1	9082110
Iron (Fe)	%	30	8.3	11	1.4	2.3	1.1	0.1	9060024
Lanthanum (La)	ppm	18	5	17	4	3	3	1	9082110
Lutetium (Lu)	ppm	0.28	0.29	0.14	<0.05	<0.05	<0.05	0.05	9082110
Molybdenum (Mo)	ppm	19	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	<5	<5	<5	<5	<5	<5	5	9082110
Samarium (Sm)	ppm	4.0	2.6	5.0	0.4	0.4	0.3	0.1	9082110
Scandium (Sc)	ppm	1.8	52.1	21.3	2.6	6.8	1.7	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	<0.05	1.8	0.24	3.2	3.0	3.3	0.05	9060024
Tantalum (Ta)	ppm	<0.2	0.2	1.2	<0.2	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	0.8	0.5	0.7	<0.5	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	0.2	0.3	1.3	<0.1	<0.1	<0.1	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.3	0.3	0.4	<0.1	<0.1	<0.1	0.1	9082110
Ytterbium (Yb)	ppm	2.0	1.7	0.5	<0.5	<0.5	<0.5	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL734	XQL735	XQL736	XQL737	XQL738	XQL739		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-111	N23-L02-112	N23-L02-113	N23-L02-114	N23-L02-115	N23-L02-116	RDL	QC Batch
Bromine	ppm	<1	<1	1	<1	1	<1	1	9082110
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	0.1	9082110
Arsenic (As)	ppm	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	0.5	9082110
Barium (Ba)	ppm	290	270	330	<50	6160	210	50	9082110
Cerium (Ce)	ppm	5	6	6	<3	423	4	3	9082110
Cesium (Cs)	ppm	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	0.5	9082110
Chromium (Cr)	ppm	<10	60	<10	240	150	20	10	9082110
Cobalt (Co)	ppm	4	11	3	53	21	5	2	9082110
Europium (Eu)	ppm	0.9	0.8	1.2	<0.5	7.5	0.9	0.5	9082110
Gold (Au)	ppb	<1	<1	<1	<1	<1	<1	1	9060025
Gold (Au)	ppm	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	<1	<1	<1	<1	16	<1	1	9082110
Iron (Fe)	%	1.0	2.2	0.8	4.7	6.9	0.9	0.1	9060024
Lanthanum (La)	ppm	3	3	4	<1	219	3	1	9082110
Lutetium (Lu)	ppm	<0.05	<0.05	<0.05	<0.05	0.54	<0.05	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	4	<1	1	9082110
Rubidium (Rb)	ppm	<5	<5	<5	<5	78	<5	5	9082110
Samarium (Sm)	ppm	0.3	0.5	0.4	0.3	30.4	0.3	0.1	9082110
Scandium (Sc)	ppm	1.7	6.4	1.2	27.2	13.7	1.5	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	3.3	3.1	3.5	1.2	2.8	3.0	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	<0.2	<0.2	1.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	0.5	9082110
Thorium (Th)	ppm	<0.1	<0.1	<0.1	<0.1	24.1	<0.1	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	<0.1	<0.1	<0.1	<0.1	5.3	<0.1	0.1	9082110
Ytterbium (Yb)	ppm	<0.5	<0.5	<0.5	<0.5	2.8	<0.5	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL740	XQL741	XQL742	XQL743	XQL744	XQL745		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-117	N23-L02-118	N23-L02-119	N23-L02-120	N23-L02-121	N23-L02-122	RDL	QC Batch
Bromine	ppm	<1	<1	1	<1	1	<1	1	9082110
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	9082110
Arsenic (As)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Barium (Ba)	ppm	210	140	220	430	230	270	50	9082110
Cerium (Ce)	ppm	<3	5	20	45	10	9	3	9082110
Cesium (Cs)	ppm	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Chromium (Cr)	ppm	30	20	50	110	<10	20	10	9082110
Cobalt (Co)	ppm	4	4	15	56	3	11	2	9082110
Europium (Eu)	ppm	0.9	0.7	1.3	2.9	1.1	1.1	0.5	9082110
Gold (Au)	ppb	<1	<1	<1	<1	<1	<1	1	9060025
Gold (Au)	ppm	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	<1	<1	<1	2	<1	<1	1	9082110
Iron (Fe)	%	1.0	0.6	3.3	14	1.1	2.4	0.1	9060024
Lanthanum (La)	ppm	3	2	9	20	4	5	1	9082110
Lutetium (Lu)	ppm	<0.05	<0.05	0.14	0.58	<0.05	<0.05	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	13	<5	<5	<5	<5	<5	5	9082110
Samarium (Sm)	ppm	0.2	0.3	2.5	7.8	0.7	0.9	0.1	9082110
Scandium (Sc)	ppm	1.9	0.5	15.1	49.9	1.8	5.6	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	3.2	3.3	2.5	2.0	3.1	2.8	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	1.4	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	<0.1	<0.1	0.5	0.2	<0.1	<0.1	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	<0.1	<0.1	0.1	0.1	<0.1	<0.1	0.1	9082110
Ytterbium (Yb)	ppm	<0.5	<0.5	0.9	3.5	<0.5	0.6	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL746	XQL747	XQL748	XQL749	XQL750	XQL751		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-123	N23-L02-124	N23-L02-125	N23-L02-126	N23-L02-127	N23-L02-128	RDL	QC Batch
Bromine	ppm	1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	<0.1	5.1	1.0	0.1	9082110
Arsenic (As)	ppm	<0.5	<0.5	<0.5	<0.5	18.0	3.5	0.5	9082110
Barium (Ba)	ppm	240	240	2980	1380	540	260	50	9082110
Cerium (Ce)	ppm	8	11	126	24	46	69	3	9082110
Cesium (Cs)	ppm	<0.5	<0.5	<0.5	<0.5	2.9	4.3	0.5	9082110
Chromium (Cr)	ppm	<10	40	20	<10	60	70	10	9082110
Cobalt (Co)	ppm	4	11	<2	<2	9	49	2	9082110
Europium (Eu)	ppm	0.8	1.0	5.4	3.7	<0.5	1.5	0.5	9082110
Gold (Au)	ppb	<1	<1	<1	<1	4	<1	1	9060025
Gold (Au)	ppm	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	0.001	9082110
Hafnium (Hf)	ppm	<1	<1	23	2	2	2	1	9082110
Iron (Fe)	%	1.1	2.6	5.4	0.8	3.6	5.8	0.1	9060024
Lanthanum (La)	ppm	4	6	62	14	21	28	1	9082110
Lutetium (Lu)	ppm	<0.05	0.06	0.82	0.09	0.06	0.21	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	7	<1	1	9082110
Rubidium (Rb)	ppm	<5	<5	58	70	60	76	5	9082110
Samarium (Sm)	ppm	0.7	1.3	12.9	1.7	3.9	5.7	0.1	9082110
Scandium (Sc)	ppm	1.8	6.6	13.3	1.0	8.2	9.8	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	3.1	2.6	3.0	1.7	0.75	0.63	0.05	9060024
Tantalum (Ta)	ppm	<0.2	<0.2	1.0	0.3	0.6	0.7	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	1.8	<0.5	0.5	0.7	0.5	9082110
Thorium (Th)	ppm	0.1	<0.1	6.7	2.4	6.5	7.4	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	1	1	9082110
Uranium (U)	ppm	<0.1	<0.1	0.9	0.3	6.2	3.4	0.1	9082110
Ytterbium (Yb)	ppm	<0.5	<0.5	4.4	<0.5	1.0	1.1	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	900	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL752	XQL753	XQL754	XQL755	XQL756	XQL757		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-129	N23-L02-130	N23-L02-131	N23-L02-132	N23-L02-133	N23-L02-134	RDL	QC Batch
Bromine	ppm	<1	40	41	4	<1	<1	1	9082110
Antimony (Sb)	ppm	2.2	5.0	8.1	0.7	<0.1	0.1	0.1	9082110
Arsenic (As)	ppm	1.9	31.9	61.0	22.7	<0.5	10.9	0.5	9082110
Barium (Ba)	ppm	800	970	1660	<50	<50	410	50	9082110
Cerium (Ce)	ppm	15	40	83	<3	13	26	3	9082110
Cesium (Cs)	ppm	<0.5	1.9	2.8	<0.5	<0.5	0.5	0.5	9082110
Chromium (Cr)	ppm	290	190	230	<10	820	60	10	9082110
Cobalt (Co)	ppm	25	<2	<2	<2	73	4	2	9082110
Europium (Eu)	ppm	1.6	<0.5	<0.5	<0.5	0.7	<0.5	0.5	9082110
Gold (Au)	ppb	<1	31	49	4	1	3	1	9060025
Gold (Au)	ppm	<0.001	0.031	0.049	0.004	0.001	0.003	0.001	9082110
Hafnium (Hf)	ppm	1	5	5	<1	1	<1	1	9082110
Iron (Fe)	%	4.3	0.6	0.9	0.6	8.7	4.6	0.1	9060024
Lanthanum (La)	ppm	7	24	48	<1	6	15	1	9082110
Lutetium (Lu)	ppm	0.17	0.29	0.48	<0.05	0.19	<0.05	0.05	9082110
Molybdenum (Mo)	ppm	<1	165	118	6	<1	58	1	9082110
Rubidium (Rb)	ppm	17	96	168	<5	<5	36	5	9082110
Samarium (Sm)	ppm	2.6	4.4	8.4	<0.1	2.4	1.9	0.1	9082110
Scandium (Sc)	ppm	37.9	12.4	27.0	0.2	34.8	6.6	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	2	<1	<1	1	9082110
Sodium (Na)	%	1.5	0.06	0.11	<0.05	0.73	0.06	0.05	9060024
Tantalum (Ta)	ppm	0.4	11.8	4.9	<0.2	0.4	0.4	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	1.0	4.8	5.3	<0.1	0.4	5.9	0.1	9082110
Tungsten (W)	ppm	<1	3	6	<1	<1	2	1	9082110
Uranium (U)	ppm	0.7	6.5	9.4	0.9	0.2	8.2	0.1	9082110
Ytterbium (Yb)	ppm	1.0	<0.5	0.9	<0.5	1.2	<0.5	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL758	XQL759	XQL760	XQL761	XQL762	XQL763		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-135	N23-L02-136	N23-L02-137	N23-L02-138	N23-L02-139	N23-L02-140	RDL	QC Batch
Bromine	ppm	<1	<1	55	2	<1	2	1	9082110
Antimony (Sb)	ppm	<0.1	1.9	4.4	<0.1	<0.1	1.6	0.1	9082110
Arsenic (As)	ppm	1.3	7.9	66.8	<0.5	<0.5	234	0.5	9082110
Barium (Ba)	ppm	590	1020	770	680	210	<50	50	9082110
Cerium (Ce)	ppm	4	138	49	152	5	<3	3	9082110
Cesium (Cs)	ppm	0.8	2.7	2.0	<0.5	<0.5	<0.5	0.5	9082110
Chromium (Cr)	ppm	<10	60	160	50	10	230	10	9082110
Cobalt (Co)	ppm	<2	15	<2	46	10	15	2	9082110
Europium (Eu)	ppm	<0.5	2.1	<0.5	4.6	1.0	<0.5	0.5	9082110
Gold (Au)	ppb	<1	<1	48	<1	<1	<1	1	9060025
Gold (Au)	ppm	<0.001	<0.001	0.048	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	9	2	8	13	<1	<1	1	9082110
Iron (Fe)	%	0.4	27	1.2	14	2.0	1.3	0.1	9060024
Lanthanum (La)	ppm	2	70	29	72	4	<1	1	9082110
Lutetium (Lu)	ppm	<0.05	0.22	0.38	1.01	0.06	<0.05	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	154	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	65	16	101	20	<5	<5	5	9082110
Samarium (Sm)	ppm	0.2	7.8	5.2	16.3	0.6	0.2	0.1	9082110
Scandium (Sc)	ppm	0.6	12.7	10.7	28.3	4.9	2.8	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	2.2	0.19	0.08	2.8	2.8	<0.05	0.05	9060024
Tantalum (Ta)	ppm	<0.2	1.5	17.2	2.5	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	0.9	0.6	2.6	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	0.3	27.9	9.1	3.7	<0.1	<0.1	0.1	9082110
Tungsten (W)	ppm	<1	<1	2	<1	<1	3	1	9082110
Uranium (U)	ppm	0.7	0.4	8.0	0.9	<0.1	<0.1	0.1	9082110
Ytterbium (Yb)	ppm	<0.5	<0.5	<0.5	6.1	<0.5	<0.5	0.5	9082110
Zirconium (Zr)	ppm	300	<100	<100	400	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL764	XQL765	XQL766	XQL767	XQL768	XQL769		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-141	N23-L02-142	N23-L02-143	N23-L02-144	N23-L02-145	N23-L02-146	RDL	QC Batch
Bromine	ppm	1	<1	<1	2	<1	1	1	9082110
Antimony (Sb)	ppm	<0.1	0.6	11.8	4.1	<0.1	0.5	0.1	9082110
Arsenic (As)	ppm	<0.5	2.4	63.9	17.6	<0.5	1.0	0.5	9082110
Barium (Ba)	ppm	<50	<50	<50	<50	230	6150	50	9082110
Cerium (Ce)	ppm	12	<3	<3	<3	14	430	3	9082110
Cesium (Cs)	ppm	1.0	0.9	<0.5	0.6	1.6	<0.5	0.5	9082110
Chromium (Cr)	ppm	480	220	710	3590	100	180	10	9082110
Cobalt (Co)	ppm	56	42	84	87	18	17	2	9082110
Europium (Eu)	ppm	0.8	0.5	<0.5	<0.5	0.6	7.8	0.5	9082110
Gold (Au)	ppb	<1	<1	7	<1	2	<1	1	9060025
Gold (Au)	ppm	<0.001	<0.001	0.007	<0.001	0.002	<0.001	0.001	9082110
Hafnium (Hf)	ppm	2	<1	<1	<1	2	16	1	9082110
Iron (Fe)	%	11	7.2	8.7	7.5	14	6.9	0.1	9060024
Lanthanum (La)	ppm	6	2	2	<1	6	215	1	9082110
Lutetium (Lu)	ppm	0.29	0.25	0.26	<0.05	0.13	0.58	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	11	5	1	9082110
Rubidium (Rb)	ppm	<5	<5	<5	<5	30	79	5	9082110
Samarium (Sm)	ppm	3.0	1.5	1.4	0.4	1.6	30.0	0.1	9082110
Scandium (Sc)	ppm	34.9	32.8	38.4	14.2	6.4	13.1	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	2	<1	1	9082110
Sodium (Na)	%	0.18	1.7	0.20	0.22	0.51	2.7	0.05	9060024
Tantalum (Ta)	ppm	0.3	<0.2	<0.2	<0.2	0.4	1.2	0.2	9082110
Terbium (Tb)	ppm	0.7	0.6	<0.5	<0.5	<0.5	2.4	0.5	9082110
Thorium (Th)	ppm	0.6	<0.1	0.1	<0.1	1.3	24.0	0.1	9082110
Tungsten (W)	ppm	3	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.3	<0.1	<0.1	<0.1	0.7	5.1	0.1	9082110
Ytterbium (Yb)	ppm	1.6	1.6	1.5	0.5	<0.5	2.1	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	500	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL770	XQL771	XQL772	XQL773	XQL774	XQL775		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-147	N23-L02-148	N23-L02-149	N23-L02-150	N23-L02-151	N23-L02-152	RDL	QC Batch
Bromine	ppm	<1	2	<1	<1	<1	2	1	9082110
Antimony (Sb)	ppm	0.2	<0.1	0.1	3.9	<0.1	0.9	0.1	9082110
Arsenic (As)	ppm	1.3	0.5	2.8	18.0	<0.5	22.5	0.5	9082110
Barium (Ba)	ppm	210	170	70	<50	380	110	50	9082110
Cerium (Ce)	ppm	18	18	<3	12	<3	<3	3	9082110
Cesium (Cs)	ppm	<0.5	0.7	2.3	0.6	0.7	0.5	0.5	9082110
Chromium (Cr)	ppm	80	80	100	<10	<10	170	10	9082110
Cobalt (Co)	ppm	47	47	15	13	5	35	2	9082110
Europium (Eu)	ppm	1.4	1.6	<0.5	<0.5	<0.5	0.6	0.5	9082110
Gold (Au)	ppb	<1	<1	<1	4	<1	4	1	9060025
Gold (Au)	ppm	<0.001	<0.001	<0.001	0.004	<0.001	0.004	0.001	9082110
Hafnium (Hf)	ppm	3	3	<1	3	2	<1	1	9082110
Iron (Fe)	%	9.6	11	2.4	5.8	0.9	5.4	0.1	9060024
Lanthanum (La)	ppm	9	9	2	8	2	<1	1	9082110
Lutetium (Lu)	ppm	0.44	0.43	0.07	0.07	0.08	0.17	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	29	15	22	<5	74	25	5	9082110
Samarium (Sm)	ppm	4.0	3.8	0.6	1.5	0.6	1.3	0.1	9082110
Scandium (Sc)	ppm	31.6	38.0	14.3	4.2	1.9	26.5	0.1	9082110
Selenium (Se)	ppm	<1	<1	1	<1	<1	<1	1	9082110
Sodium (Na)	%	1.3	2.4	0.64	2.2	3.0	0.56	0.05	9060024
Tantalum (Ta)	ppm	0.4	0.3	<0.2	0.2	0.4	<0.2	0.2	9082110
Terbium (Tb)	ppm	0.7	0.8	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	1.2	1.1	0.5	1.2	0.8	<0.1	0.1	9082110
Tungsten (W)	ppm	<1	<1	3	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.4	0.4	0.4	0.6	1.8	<0.1	0.1	9082110
Ytterbium (Yb)	ppm	2.7	2.6	<0.5	0.5	<0.5	0.8	0.5	9082110
Zirconium (Zr)	ppm	<100	200	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL776	XQL777	XQL778	XQL779	XQL780	XQL781		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-153	N23-L02-154	N23-L02-155	N23-L02-156	N23-L02-157	N23-L02-158	RDL	QC Batch
Bromine	ppm	<1	1	2	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.4	0.8	0.6	<0.1	<0.1	1.0	0.1	9082110
Arsenic (As)	ppm	5.7	8.8	3.5	<0.5	2.0	9.9	0.5	9082110
Barium (Ba)	ppm	560	110	120	370	<50	<50	50	9082110
Cerium (Ce)	ppm	37	31	42	4	8	8	3	9082110
Cesium (Cs)	ppm	<0.5	1.0	1.1	0.5	0.9	<0.5	0.5	9082110
Chromium (Cr)	ppm	200	20	90	<10	40	110	10	9082110
Cobalt (Co)	ppm	33	37	55	6	48	42	2	9082110
Europium (Eu)	ppm	1.2	1.8	1.8	<0.5	1.3	<0.5	0.5	9082110
Gold (Au)	ppb	<1	18	<1	<1	2	4	1	9060025
Gold (Au)	ppm	<0.001	0.018	<0.001	<0.001	0.002	0.004	0.001	9082110
Hafnium (Hf)	ppm	2	6	4	2	2	1	1	9082110
Iron (Fe)	%	5.7	8.9	11	0.9	11	7.6	0.1	9060024
Lanthanum (La)	ppm	19	13	18	2	5	2	1	9082110
Lutetium (Lu)	ppm	0.17	0.99	0.49	0.10	0.43	0.23	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	21	14	8	65	<5	<5	5	9082110
Samarium (Sm)	ppm	3.8	7.9	5.7	0.5	3.7	1.9	0.1	9082110
Scandium (Sc)	ppm	29.2	29.3	39.7	1.9	43.0	42.4	0.1	9082110
Selenium (Se)	ppm	<1	2	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	2.4	1.4	2.0	3.0	1.9	2.4	0.05	9060024
Tantalum (Ta)	ppm	0.3	0.7	0.6	0.5	0.4	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	1.6	1.0	<0.5	0.8	0.5	0.5	9082110
Thorium (Th)	ppm	3.2	1.2	1.6	0.8	0.5	<0.1	0.1	9082110
Tungsten (W)	ppm	<1	2	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.8	0.3	0.4	1.7	<0.1	0.1	0.1	9082110
Ytterbium (Yb)	ppm	1.0	5.9	2.9	0.6	2.9	1.8	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL782	XQL783	XQL784	XQL785	XQL786	XQL787		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-159	N23-L02-160	N23-L02-161	N23-L02-162	N23-L02-163	N23-L02-164	RDL	QC Batch
Bromine	ppm	<1	<1	<1	1	<1	<1	1	9082110
Antimony (Sb)	ppm	1.0	0.2	0.3	0.2	0.2	1.4	0.1	9082110
Arsenic (As)	ppm	1.9	3.3	0.7	0.5	<0.5	2.0	0.5	9082110
Barium (Ba)	ppm	<50	580	<50	<50	220	<50	50	9082110
Cerium (Ce)	ppm	8	101	<3	<3	28	<3	3	9082110
Cesium (Cs)	ppm	0.8	0.8	<0.5	<0.5	1.3	<0.5	0.5	9082110
Chromium (Cr)	ppm	260	60	1210	2430	20	1700	10	9082110
Cobalt (Co)	ppm	50	47	107	114	5	80	2	9082110
Europium (Eu)	ppm	0.6	4.4	<0.5	<0.5	0.6	0.8	0.5	9082110
Gold (Au)	ppb	2	<1	<1	<1	1700	2	1	9060025
Gold (Au)	ppm	0.002	<0.001	<0.001	<0.001	1.65	0.002	0.001	9082110
Hafnium (Hf)	ppm	2	9	<1	<1	3	1	1	9082110
Iron (Fe)	%	8.1	14	5.0	6.3	2.4	7.7	0.1	9060024
Lanthanum (La)	ppm	3	45	<1	<1	13	3	1	9082110
Lutetium (Lu)	ppm	0.28	0.94	<0.05	<0.05	0.14	0.11	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	<5	21	<5	<5	31	<5	5	9082110
Samarium (Sm)	ppm	2.4	14.3	0.1	0.2	2.3	1.5	0.1	9082110
Scandium (Sc)	ppm	33.1	48.7	6.1	6.2	8.8	23.3	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	2.0	2.3	0.23	0.27	1.8	0.12	0.05	9060024
Tantalum (Ta)	ppm	0.2	1.1	<0.2	<0.2	0.4	<0.2	0.2	9082110
Terbium (Tb)	ppm	0.6	2.5	<0.5	<0.5	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	0.2	1.7	<0.1	<0.1	2.2	0.5	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	2	<1	<1	1	9082110
Uranium (U)	ppm	<0.1	0.7	<0.1	<0.1	0.5	0.2	0.1	9082110
Ytterbium (Yb)	ppm	1.6	6.2	<0.5	<0.5	0.6	0.8	0.5	9082110
Zirconium (Zr)	ppm	<100	400	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL788	XQL789	XQL790	XQL791	XQL792	XQL793		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-165	N23-L02-166	N23-L02-167	N23-L02-168	N23-L02-169	N23-L02-170	RDL	QC Batch
Bromine	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	2.1	0.1	0.3	4.7	0.3	<0.1	0.1	9082110
Arsenic (As)	ppm	1.8	<0.5	1.2	23.3	<0.5	<0.5	0.5	9082110
Barium (Ba)	ppm	810	<50	<50	<50	430	440	50	9082110
Cerium (Ce)	ppm	13	10	<3	<3	22	44	3	9082110
Cesium (Cs)	ppm	<0.5	<0.5	<0.5	0.7	1.4	1.8	0.5	9082110
Chromium (Cr)	ppm	300	280	3110	10	150	350	10	9082110
Cobalt (Co)	ppm	27	42	524	32	59	39	2	9082110
Europium (Eu)	ppm	1.3	0.9	<0.5	<0.5	1.3	2.7	0.5	9082110
Gold (Au)	ppb	<1	<1	8	4	<1	<1	1	9060025
Gold (Au)	ppm	<0.001	<0.001	0.008	0.004	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	2	2	<1	3	3	4	1	9082110
Iron (Fe)	%	4.5	7.1	13	6.9	10	11	0.1	9060024
Lanthanum (La)	ppm	7	4	<1	<1	12	19	1	9082110
Lutetium (Lu)	ppm	0.19	0.26	<0.05	0.06	0.41	0.49	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	13	1	9082110
Rubidium (Rb)	ppm	15	<5	<5	17	24	12	5	9082110
Samarium (Sm)	ppm	2.5	2.1	<0.1	0.5	4.7	6.6	0.1	9082110
Scandium (Sc)	ppm	40.0	33.4	6.3	7.8	41.1	43.4	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	1.6	2.5	0.17	0.30	1.8	1.8	0.05	9060024
Tantalum (Ta)	ppm	0.4	<0.2	<0.2	0.5	0.4	0.7	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	<0.5	1.0	1.2	0.5	9082110
Thorium (Th)	ppm	1.0	0.4	<0.1	1.3	1.1	0.8	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	2	<1	<1	1	9082110
Uranium (U)	ppm	0.7	0.2	<0.1	0.5	0.2	0.5	0.1	9082110
Ytterbium (Yb)	ppm	1.1	1.3	<0.5	<0.5	2.4	3.4	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

**RESULTS OF ANALYSES OF SOLID**

Bureau Veritas ID		XQL794	XQL795	XQL796	XQL797	XQL798	XQL799		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-171	N23-L02-172	N23-L02-173	N23-L02-174	N23-L02-175	N23-L02-176	RDL	QC Batch
Bromine	ppm	1	2	2	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	<0.1	<0.1	<0.1	<0.1	0.3	0.7	0.1	9082110
Arsenic (As)	ppm	<0.5	<0.5	0.5	0.7	<0.5	21.8	0.5	9082110
Barium (Ba)	ppm	260	470	80	260	400	<50	50	9082110
Cerium (Ce)	ppm	28	36	<3	36	22	6	3	9082110
Cesium (Cs)	ppm	1.9	<0.5	0.6	0.7	1.2	<0.5	0.5	9082110
Chromium (Cr)	ppm	50	30	340	20	140	240	10	9082110
Cobalt (Co)	ppm	63	15	52	7	56	38	2	9082110
Europium (Eu)	ppm	1.6	0.8	0.6	0.9	1.6	1.0	0.5	9082110
Gold (Au)	ppb	<1	<1	<1	<1	<1	<1	1	9060025
Gold (Au)	ppm	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	3	3	<1	3	3	1	1	9082110
Iron (Fe)	%	12	3.1	8.7	1.4	10	7.0	0.1	9060024
Lanthanum (La)	ppm	14	19	2	20	12	5	1	9082110
Lutetium (Lu)	ppm	0.41	0.10	0.26	<0.05	0.43	0.26	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	32	46	25	40	22	<5	5	9082110
Samarium (Sm)	ppm	4.9	3.1	1.7	1.9	4.4	2.0	0.1	9082110
Scandium (Sc)	ppm	41.4	10.3	48.5	3.2	39.3	32.5	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	1.6	2.9	2.0	3.5	1.7	2.6	0.05	9060024
Tantalum (Ta)	ppm	0.5	0.3	<0.2	0.2	0.4	<0.2	0.2	9082110
Terbium (Tb)	ppm	1.0	<0.5	0.5	<0.5	0.9	<0.5	0.5	9082110
Thorium (Th)	ppm	1.5	4.2	0.2	3.7	1.0	0.5	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.4	0.3	<0.1	0.7	0.2	0.2	0.1	9082110
Ytterbium (Yb)	ppm	2.8	0.5	1.6	<0.5	2.6	1.6	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL800	XQL801	XQL802	XQL803	XQL804	XQL805		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-177	N23-L02-178	N23-L02-179	N23-L02-180	N23-L02-181	N23-L02-182	RDL	QC Batch
Bromine	ppm	3	2	<1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.2	<0.1	<0.1	0.6	0.3	0.5	0.1	9082110
Arsenic (As)	ppm	6.1	1.5	<0.5	17.2	<0.5	1.8	0.5	9082110
Barium (Ba)	ppm	450	<50	140	620	100	<50	50	9082110
Cerium (Ce)	ppm	<3	10	<3	97	6	<3	3	9082110
Cesium (Cs)	ppm	1.0	<0.5	<0.5	2.1	1.1	<0.5	0.5	9082110
Chromium (Cr)	ppm	290	40	280	80	90	240	10	9082110
Cobalt (Co)	ppm	95	57	428	55	61	45	2	9082110
Europium (Eu)	ppm	0.8	1.0	<0.5	3.5	1.3	1.2	0.5	9082110
Gold (Au)	ppb	11	<1	<1	<1	<1	<1	1	9060025
Gold (Au)	ppm	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	3	2	<1	9	2	2	1	9082110
Iron (Fe)	%	9.3	11	31	13	12	16	0.1	9060024
Lanthanum (La)	ppm	2	5	5	42	4	3	1	9082110
Lutetium (Lu)	ppm	0.19	0.28	0.24	0.89	0.45	0.56	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	37	<5	15	21	9	7	5	9082110
Samarium (Sm)	ppm	0.8	3.5	1.1	13.7	2.7	2.5	0.1	9082110
Scandium (Sc)	ppm	43.4	30.1	12.4	46.3	55.4	43.0	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	2.2	1.7	0.94	2.3	2.4	0.80	0.05	9060024
Tantalum (Ta)	ppm	0.2	0.4	<0.2	1.2	0.3	<0.2	0.2	9082110
Terbium (Tb)	ppm	<0.5	0.7	<0.5	2.4	0.7	0.9	0.5	9082110
Thorium (Th)	ppm	1.0	0.4	1.2	2.0	0.2	0.3	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.3	0.1	<0.1	0.7	<0.1	0.1	0.1	9082110
Ytterbium (Yb)	ppm	1.3	1.8	0.8	5.8	3.0	3.8	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	300	<100	<100	100	9082110
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL806	XQL807	XQL808	XQL809	XQL810	XQL811		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-183	N23-L02-184	N23-L02-185	N23-L02-186	N23-L02-187	N23-L02-188	RDL	QC Batch
Bromine	ppm	1	<1	1	<1	<1	<1	1	9082110
Antimony (Sb)	ppm	0.1	0.1	0.5	<0.1	1.9	<0.1	0.1	9082110
Arsenic (As)	ppm	1.4	2.7	1.1	0.8	4.1	<0.5	0.5	9082110
Barium (Ba)	ppm	270	720	6200	270	80	540	50	9082110
Cerium (Ce)	ppm	26	98	448	40	7	55	3	9082110
Cesium (Cs)	ppm	0.7	<0.5	0.6	<0.5	<0.5	<0.5	0.5	9082110
Chromium (Cr)	ppm	80	50	180	130	230	40	10	9082110
Cobalt (Co)	ppm	26	42	16	25	44	34	2	9082110
Europium (Eu)	ppm	0.9	4.3	7.7	1.3	1.1	2.4	0.5	9082110
Gold (Au)	ppb	<1	<1	<1	<1	<1	<1	1	9060025
Gold (Au)	ppm	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	9082110
Hafnium (Hf)	ppm	4	9	16	4	2	2	1	9082110
Iron (Fe)	%	4.6	14	7.0	4.3	9.0	8.5	0.1	9060024
Lanthanum (La)	ppm	11	45	220	18	4	27	1	9082110
Lutetium (Lu)	ppm	0.22	1.00	0.62	0.21	0.35	0.23	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	6	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	31	27	76	31	8	14	5	9082110
Samarium (Sm)	ppm	3.0	14.7	30.5	4.2	2.6	6.2	0.1	9082110
Scandium (Sc)	ppm	19.6	48.8	14.0	15.9	39.5	20.5	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Sodium (Na)	%	2.4	2.1	2.9	3.5	1.6	2.5	0.05	9060024
Tantalum (Ta)	ppm	0.4	1.1	1.3	0.5	<0.2	0.5	0.2	9082110
Terbium (Tb)	ppm	0.5	2.6	2.5	0.6	0.7	0.8	0.5	9082110
Thorium (Th)	ppm	1.4	1.8	24.2	1.9	0.4	1.6	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.5	0.7	5.3	0.6	<0.1	0.3	0.1	9082110
Ytterbium (Yb)	ppm	1.2	6.0	2.5	1.3	2.2	1.4	0.5	9082110
Zirconium (Zr)	ppm	<100	400	500	<100	<100	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL812	XQL813	XQL814	XQL815	XQL816	XQL817		
Sampling Date									
COC Number		n/a	n/a	n/a	n/a	n/a	n/a		
	UNITS	N23-L02-189	N23-L02-190	N23-L02-191	N23-L02-192	N23-L02-193	N23-L02-194	RDL	QC Batch
Bromine	ppm	<1	1	1	<1	1	1	1	9082110
Antimony (Sb)	ppm	<0.1	<0.1	0.1	<0.1	<0.1	0.3	0.1	9082110
Arsenic (As)	ppm	<0.5	0.6	1.4	<0.5	1.4	5.1	0.5	9082110
Barium (Ba)	ppm	160	60	900	<50	260	<50	50	9082110
Cerium (Ce)	ppm	12	<3	21	18	26	12	3	9082110
Cesium (Cs)	ppm	5.1	<0.5	<0.5	<0.5	1.0	<0.5	0.5	9082110
Chromium (Cr)	ppm	110	130	80	70	100	60	10	9082110
Cobalt (Co)	ppm	71	66	22	93	58	44	2	9082110
Europium (Eu)	ppm	<0.5	<0.5	1.0	1.8	1.4	0.7	0.5	9082110
Gold (Au)	ppb	10	<1	2	<1	<1	7	1	9060025
Gold (Au)	ppm	0.010	<0.001	0.002	<0.001	<0.001	0.007	0.001	9082110
Hafnium (Hf)	ppm	3	1	3	3	4	2	1	9082110
Iron (Fe)	%	12	12	6.3	16	12	8.6	0.1	9060024
Lanthanum (La)	ppm	10	2	9	8	12	6	1	9082110
Lutetium (Lu)	ppm	<0.05	0.14	0.23	0.26	0.59	0.19	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	2	<1	<1	1	9082110
Rubidium (Rb)	ppm	92	16	33	6	23	<5	5	9082110
Samarium (Sm)	ppm	1.5	2.0	3.7	5.2	5.0	1.8	0.1	9082110
Scandium (Sc)	ppm	7.5	31.1	15.6	55.4	39.3	21.2	0.1	9082110
Selenium (Se)	ppm	<1	<1	<1	<1	<1	1	1	9082110
Sodium (Na)	%	2.4	1.7	3.0	0.64	2.2	0.07	0.05	9060024
Tantalum (Ta)	ppm	0.4	<0.2	0.7	0.6	0.5	0.3	0.2	9082110
Terbium (Tb)	ppm	<0.5	<0.5	<0.5	0.7	1.0	<0.5	0.5	9082110
Thorium (Th)	ppm	1.9	0.3	1.6	0.6	1.5	1.2	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	<1	<1	<1	1	9082110
Uranium (U)	ppm	1.0	0.3	0.9	0.2	0.5	0.3	0.1	9082110
Ytterbium (Yb)	ppm	<0.5	1.1	1.4	1.3	3.4	1.3	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	<100	200	<100	100	9082110

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF SOLID

Bureau Veritas ID		XQL818	XQL819	XQL820		
Sampling Date						
COC Number		n/a	n/a	n/a		
	UNITS	N23-L02-195	N23-L02-196	N23-L02-197	RDL	QC Batch
Bromine	ppm	2	<1	<1	1	9082110
Antimony (Sb)	ppm	<0.1	0.2	0.2	0.1	9082110
Arsenic (As)	ppm	1.2	4.0	4.8	0.5	9082110
Barium (Ba)	ppm	890	<50	<50	50	9082110
Cerium (Ce)	ppm	23	<3	<3	3	9082110
Cesium (Cs)	ppm	<0.5	1.6	1.0	0.5	9082110
Chromium (Cr)	ppm	90	60	40	10	9082110
Cobalt (Co)	ppm	20	762	483	2	9082110
Europium (Eu)	ppm	1.3	0.8	<0.5	0.5	9082110
Gold (Au)	ppb	<1	51	47	1	9060025
Gold (Au)	ppm	<0.001	0.051	0.047	0.001	9082110
Hafnium (Hf)	ppm	3	<1	<1	1	9082110
Iron (Fe)	%	6.5	28	25	0.1	9060024
Lanthanum (La)	ppm	9	1	3	1	9082110
Lutetium (Lu)	ppm	0.18	0.12	0.27	0.05	9082110
Molybdenum (Mo)	ppm	<1	<1	<1	1	9082110
Rubidium (Rb)	ppm	35	7	9	5	9082110
Samarium (Sm)	ppm	3.6	0.5	0.7	0.1	9082110
Scandium (Sc)	ppm	15.6	8.9	10.1	0.1	9082110
Selenium (Se)	ppm	<1	20	15	1	9082110
Sodium (Na)	%	3.0	0.18	0.20	0.05	9060024
Tantalum (Ta)	ppm	0.7	<0.2	<0.2	0.2	9082110
Terbium (Tb)	ppm	0.6	<0.5	<0.5	0.5	9082110
Thorium (Th)	ppm	1.6	0.3	<0.1	0.1	9082110
Tungsten (W)	ppm	<1	<1	<1	1	9082110
Uranium (U)	ppm	0.8	0.4	0.4	0.1	9082110
Ytterbium (Yb)	ppm	1.3	<0.5	0.7	0.5	9082110
Zirconium (Zr)	ppm	<100	<100	<100	100	9082110
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



**BUREAU
VERITAS**

Bureau Veritas Job #: C3AD195
Report Date: 2023/12/18

Government of Newfoundland and Labrador
Your P.O. #: 221027540-7

GENERAL COMMENTS

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C3AD195

Report Date: 2023/12/18

Government of Newfoundland and Labrador

Your P.O. #: 221027540-7

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Steven Simpson, BSc., MBA, C.Chem, Miss.-Kitimat, Lab Director

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