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Page: 1
Finalized Date: 5-DEC-2008
Account: NUPRES

CERTIFICATE AS08152923

Project: STRANG WAYS

P.O. No.: 2008/15 (266179)

This report is for 179 Stream Sediment samples submitted to our lab in Alice Springs, NT, Australia on 27-OCT-2008.

The following have access to data associated with this certificate:

WARRICK RAFFERTY

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
WSH-22	"Wash" pulverizers
LEV-01	Waste Disposal Levy
LEV-02	Remote Lab Surcharge
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61r	48 element four acid ICP-MS + REEs
Au-TL44	Trace Level Au - 50 g AR ICP-MS

To: **NUPOWER RESOURCES LTD**
ATTN: WARRICK RAFFERTY
GPO BOX 2552
DARWIN NT 0801

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Wayne Abbott, Operations Manager, Western Australia



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Page: 2 - A

Total # Pages: 6 (A - E)

Plus Appendix Pages

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CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r Cs ppm
		0.02	0.01	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
FLUSH A		<0.02		<0.001	0.03	5.09	<0.2	890	1.04	0.03	0.87	0.05	27.6	3.1	10	1.23
FLUSH B		<0.02		<0.001	0.02	5.04	<0.2	860	1.06	0.02	0.83	0.02	30.7	2.9	10	1.17
FLUSH C		<0.02		0.001	0.02	5.03	<0.2	840	1.06	0.02	0.87	0.02	27.6	3.7	12	1.15
12370		2.35		0.001	0.03	4.13	0.2	780	0.66	0.03	0.77	0.04	121	4.7	14	0.26
12371		2.12		0.001	0.03	3.6	0.3	790	0.64	0.05	0.56	0.03	113	4.9	13	0.21
12372		2.13		<0.001	0.06	3.25	0.2	640	0.69	0.08	0.48	0.05	115.5	5.2	15	0.24
12373		2.34		0.001	0.06	3.53	0.8	640	0.76	0.1	0.56	0.06	246	7.1	24	0.28
12374		2.25		0.001	0.14	3.91	0.7	570	0.83	0.19	0.62	0.09	436	12.4	62	0.39
12375		2.13		<0.001	0.07	3.42	<0.2	630	0.83	0.15	0.56	0.06	172	6.1	19	0.25
12376		2.18	92.8	<0.001	0.06	3.8	0.7	630	0.94	0.11	0.7	0.05	257	7.2	25	0.33
12377		1.57		0.001	0.07	3.99	0.3	600	0.78	0.05	0.58	0.05	175	6.6	16	0.43
12378		2.38		<0.001	0.05	3.76	<0.2	680	0.95	0.2	0.68	0.11	107	6.9	25	0.51
12379		2.76		<0.001	0.13	3.53	<0.2	510	0.88	0.05	1	0.06	138.5	12.8	57	0.18
12380		1.86		0.001	0.06	3.38	0.2	530	0.8	0.04	0.84	0.05	129.5	8.5	32	0.17
12381		2.73		0.001	0.07	5.85	0.5	800	1.05	0.05	1.53	0.1	133	12.2	31	0.51
12382		2.41		0.001	0.08	3.59	<0.2	560	0.9	0.07	0.46	0.07	152	10.9	53	0.58
12383		2.54		<0.001	0.07	3.62	<0.2	660	0.81	0.06	0.45	0.05	222	7.2	26	0.64
12384		3.17		0.001	0.16	4.47	0.5	330	1.27	0.06	1.22	0.03	247	20	251	2.62
12385		2.16		0.001	0.17	3.9	0.2	500	0.96	0.04	0.28	0.05	243	17.4	129	1.43
12386		2.07		0.001	0.09	3.44	<0.2	530	0.8	0.05	0.79	0.04	122	10	51	0.34
12387		2.50		0.001	0.07	4.56	1	670	1.45	0.09	0.59	0.14	129	8.9	31	0.87
12388		2.53		0.001	0.04	3.68	<0.2	610	0.92	0.04	0.77	0.04	81.9	7.3	24	0.38
12389		2.78		0.001	0.05	4.3	0.4	1020	1.08	0.06	0.75	0.03	98.2	6.6	18	1.32
12390		2.08		0.001	0.05	3.33	<0.2	470	0.89	0.04	0.82	0.03	116	8.7	34	0.25
12391		2.07		0.001	0.08	4.33	0.6	500	1.09	0.07	1.17	0.04	114.5	9.5	45	0.49
12392		2.33		0.001	0.07	3.42	<0.2	480	0.88	0.03	0.85	0.05	91.5	9.2	34	0.22
12393		1.93		0.001	0.08	6.9	0.3	500	1.74	0.11	2.1	0.04	166.5	18.8	112	3.41
12394		1.99		<0.001	0.06	4.93	0.6	570	1.66	0.08	0.62	0.05	98.2	9.2	41	2.41
12395		2.54		0.001	0.18	4.63	0.6	560	1.22	0.1	1.7	0.15	194.5	19.9	55	0.7
12396		2.50		<0.001	0.11	7.11	0.3	800	1.86	0.18	2.19	0.25	162.5	24.3	97	4.19
12397		2.75		0.002	0.1	7.08	1.2	650	1.82	0.2	1.93	0.15	141.5	25.9	102	4.12
12398		2.13		0.001	0.11	5.49	0.3	590	1.36	0.11	1.46	0.09	364	19.2	68	2.25
12399		2.30		0.001	0.09	6.96	1.1	560	1.72	0.47	2.52	0.14	181	21.7	83	6.88
12400		2.48		0.001	0.08	6.74	<0.2	440	1.82	0.16	2.39	0.13	212	26.6	152	3.7
12401		1.01		0.001	0.07	5.96	0.2	1010	0.91	<0.01	0.84	0.02	196.5	6	3	0.23
12402		1.02		<0.001	<0.01	7.01	0.4	5240	0.56	0.02	0.69	0.05	>500	6.2	7	0.28
12403		1.05		0.003	<0.01	7.32	0.4	6900	0.39	0.02	0.17	0.04	>500	22.4	5	0.69
12404		1.10		0.001	<0.01	6.84	2.3	5610	0.41	0.01	0.47	0.05	>500	9.2	7	0.36
12405		1.05		0.001	<0.01	6.95	0.6	6410	0.95	0.02	0.58	0.03	>500	14.1	4	1
12406		1.07		0.001	<0.01	6.26	<0.2	3460	0.78	0.01	0.92	0.05	375	11.5	9	0.28



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Page: 2 - B

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CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r Cu ppm	ME-MS61r Fe %	ME-MS61r Ga ppm	ME-MS61r Ge ppm	ME-MS61r Hf ppm	ME-MS61r In ppm	ME-MS61r K %	ME-MS61r La ppm	ME-MS61r Li ppm	ME-MS61r Mg %	ME-MS61r Mn ppm	ME-MS61r Mo ppm	ME-MS61r Na %	ME-MS61r Nb ppm	ME-MS61r Ni ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
FLUSH A		4.8	0.91	10.9	0.09	1	0.017	2.77	13.4	5.2	0.22	152	0.58	1.31	1.8	7.1
FLUSH B		4.4	0.89	10.55	0.08	1	0.014	2.73	15.7	5.1	0.2	136	0.38	1.27	1.8	6.5
FLUSH C		16.1	1.14	10.35	0.07	1	0.014	2.62	13.5	5	0.22	167	1.25	1.26	1.9	9.9
12370		5.5	1.96	11.05	0.17	2.8	0.049	2.1	55.9	3.1	0.34	282	0.47	0.9	6.8	6
12371		7.5	2.49	10.15	0.16	2.5	0.064	1.92	50.7	2.9	0.36	334	1.07	0.74	6.9	6.2
12372		10	3.13	10.45	0.18	2.6	0.091	1.68	49.1	3.5	0.5	418	0.5	0.55	9.3	5.8
12373		10.6	4.41	13.2	0.29	3	0.118	1.63	104.5	3.8	0.58	569	0.74	0.6	13.9	7
12374		14.3	8.59	21.2	0.48	3	0.208	1.51	162	4.5	0.75	955	0.64	0.55	24.3	12.8
12375		11.9	3.71	11.85	0.22	3	0.11	1.51	73.1	3.5	0.59	511	1.21	0.62	10	7.3
12376		12.1	4.03	13.75	0.3	3.5	0.123	1.48	110	3.9	0.69	502	0.61	0.73	11.6	8.2
12377		12.3	3.87	12.85	0.23	2.5	0.087	1.96	76.4	6.1	0.49	631	1.01	0.61	15.1	6.9
12378		23.4	3.37	12	0.15	2	0.095	2.01	46.5	5.2	0.71	418	0.36	0.47	9.7	8.4
12379		9.7	5.79	13.25	0.2	3.1	0.131	1.02	60.1	3.6	0.96	635	0.35	0.81	18.8	13.5
12380		10.3	3.87	11.45	0.17	3	0.093	1.16	55.4	3.8	0.74	405	0.45	0.83	11.1	10.1
12381		25.1	4.72	16.45	0.18	2	0.091	1.9	57.9	8.9	0.99	502	0.31	1.13	14.1	15.4
12382		19.6	6.03	15.45	0.2	2	0.148	1.47	62.8	6.4	0.78	652	0.45	0.33	17.1	15.4
12383		21.6	3.84	12.9	0.26	1.6	0.081	1.92	92.7	7.5	0.69	428	0.26	0.37	11.9	7.9
12384		14.9	15.1	25.9	0.35	1	0.089	1.34	105	15.8	0.86	1280	0.37	0.09	15.5	47
12385		26.6	9.51	19.9	0.32	1.5	0.144	1.98	91.4	11.2	0.88	674	0.57	0.16	20.3	28.5
12386		12.7	4.73	12.25	0.19	2.6	0.107	1.42	52.4	4.3	0.77	553	0.65	0.59	14.5	15
12387		28.1	4.12	14.25	0.18	2.3	0.131	2.09	56.7	8.9	0.98	544	1.18	0.46	13.2	13.7
12388		12.7	2.97	10.95	0.14	2.3	0.072	1.59	35.9	4.7	0.63	337	0.53	0.71	8.2	10.8
12389		17.3	2.95	12.5	0.13	1.9	0.07	2.46	41.6	14.2	0.78	707	0.6	0.28	9.9	9.9
12390		10.3	3.83	11.15	0.15	2.5	0.093	1.15	47.5	3.3	0.7	411	0.44	0.7	11.7	12.4
12391		13.6	3.69	13.1	0.15	2.5	0.083	1.43	49.7	5	0.78	430	0.29	0.99	11	15.6
12392		10	4.12	11.4	0.14	2.5	0.099	1.09	39.2	2.9	0.72	457	0.61	0.72	12.3	12.9
12393		18.9	8.31	23.7	0.22	0.8	0.086	2.35	69.2	15.2	1.12	806	0.89	0.16	10.6	35
12394		13.2	3.99	15.2	0.15	1.3	0.079	2.39	41.9	10.9	0.81	494	0.42	0.23	7.4	18.1
12395		26.1	8.85	19.3	0.24	2.6	0.174	1.59	83.5	6.6	1.06	1450	1.02	0.62	22.8	20.8
12396		22	8.01	19.55	0.21	1	0.139	2.94	68.3	18.3	1.3	2980	0.38	0.31	9.7	38.1
12397		17.7	8.81	20.5	0.19	0.8	0.13	2.34	60.1	19.1	1.58	3440	0.3	0.2	8.6	38.7
12398		21	8.43	19.7	0.36	2.1	0.141	2.07	155.5	12.8	1.18	1440	0.53	0.48	17	23.4
12399		22.1	8.43	18.4	0.22	1.2	0.112	2.66	76.1	21.9	1.3	2900	0.65	0.21	8.6	28.6
12400		10.9	12.35	26	0.3	0.9	0.134	2.05	92.9	27.3	1.43	2110	0.61	0.2	8.9	42.3
12401		3.8	3.65	19.9	0.23	3	0.071	1.31	82.2	5.7	0.73	238	1.24	2.02	20.2	3.9
12402		2.9	2.7	27.8	1.36	3.6	0.034	4.59	1240	3.3	0.37	117	0.93	1.6	8	4.4
12403		5.8	6.7	27.6	0.38	0.5	0.091	5.61	294	9	1.72	247	0.67	0.83	27.7	5.8
12404		3.3	3.08	32.9	2.13	5.5	0.041	5.01	2090	4.3	0.67	119	0.87	1.29	12.2	4.8
12405		3.7	4.32	27	0.85	1.5	0.076	4.44	790	8	1.16	186	0.77	1.31	19.3	3.8
12406		4.9	4.28	20	0.31	3.7	0.055	3.21	208	5.4	0.87	200	0.67	1.38	17.3	6.5



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Page: 2 - C

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
FLUSH A		120	21.7	111	0.002	<0.01	<0.05	3.7	1	0.7	202	0.16	<0.05	4.5	0.053
FLUSH B		110	21.7	107	0.002	<0.01	<0.05	3.4	1	0.7	201	0.15	<0.05	5.8	0.052
FLUSH C		110	21.3	101.5	0.002	<0.01	0.05	3.6	1	1.2	197.5	0.17	<0.05	4.5	0.054
12370		170	22.6	60.1	0.002	<0.01	<0.05	7.3	1	1.7	67.1	0.46	<0.05	25.6	0.231
12371		180	19.5	50.5	0.003	<0.01	<0.05	8.5	2	2.1	57.6	0.46	<0.05	23.7	0.246
12372		220	18.7	49.9	0.002	<0.01	<0.05	11.1	2	2.7	45.8	0.6	<0.05	22	0.291
12373		310	21.5	51.2	0.002	<0.01	<0.05	14.6	2	3.8	48.5	0.97	<0.05	45	0.459
12374		430	23	47.9	0.003	<0.01	<0.05	22.5	4	6.8	43.8	1.8	<0.05	76.4	0.956
12375		230	18.5	45.1	0.002	<0.01	<0.05	13	2	3.4	47.8	0.68	<0.05	30.7	0.322
12376		290	21.1	45.4	0.002	<0.01	<0.05	13.2	2	3.8	53.2	0.79	<0.05	45.4	0.397
12377		330	19.1	74.3	0.003	<0.01	<0.05	16.9	2	2.6	57.4	1.03	<0.05	31	0.454
12378		270	28	70.6	0.002	<0.01	<0.05	13.2	1	2.8	58.7	0.61	<0.05	18	0.338
12379		230	11.7	29.6	0.002	<0.01	<0.05	22.5	2	4.5	47.4	1.31	<0.05	24.2	0.792
12380		220	12.5	31.1	0.002	<0.01	<0.05	14.8	2	2.9	48.8	0.78	<0.05	24.7	0.416
12381		460	19.5	59.2	0.002	<0.01	<0.05	21.7	2	3.3	88	0.98	<0.05	20.8	0.576
12382		240	16.3	53.5	0.002	<0.01	0.05	19.1	2	4.7	36.7	1.11	<0.05	26.2	0.616
12383		290	19.7	73.3	0.002	<0.01	<0.05	15.4	2	3.2	44.2	0.77	<0.05	41.5	0.429
12384		230	15.7	75.9	0.002	<0.01	0.46	30.9	2	6.8	35.7	1.13	<0.05	38	0.959
12385		300	20.9	93.6	0.003	<0.01	0.09	23.3	2	5.4	28.9	1.38	<0.05	40.9	0.985
12386		240	14.1	47.2	0.002	<0.01	0.05	16.9	2	3.7	44.6	0.94	<0.05	23.2	0.544
12387		320	36.9	81	0.003	0.01	0.07	16.2	2	3.3	43.7	0.81	<0.05	23.3	0.421
12388		220	13.9	52.8	0.002	<0.01	0.05	12.6	1	2.5	54.4	0.48	<0.05	14.8	0.261
12389		250	21.5	108.5	0.002	<0.01	0.09	12.7	1	4.5	53.6	0.74	<0.05	17.4	0.278
12390		200	9.8	36	0.002	<0.01	<0.05	15	2	3.1	46.7	0.77	<0.05	20.6	0.43
12391		230	12.6	52	0.002	<0.01	0.05	15.6	1	3.3	63.9	0.79	<0.05	21.1	0.417
12392		200	8.5	34.5	0.002	<0.01	<0.05	16.4	2	3	47.6	0.75	<0.05	15.8	0.448
12393		200	18.3	126.5	0.002	<0.01	0.26	21.4	1	4.8	89	0.68	<0.05	23	0.449
12394		190	21.1	110.5	0.002	<0.01	0.12	13.8	1	3.9	40.4	0.51	<0.05	16.4	0.252
12395		380	13.2	56.8	0.002	<0.01	0.09	26.6	2	6.2	78.1	1.43	<0.05	35.4	1.08
12396		270	75.5	156	0.002	<0.01	0.36	30.7	1	5.5	88.2	0.79	<0.05	24.3	0.513
12397		230	38.1	131.5	0.002	<0.01	0.37	39.3	1	5.6	78.1	0.74	<0.05	20.1	0.471
12398		390	23	94.3	0.002	<0.01	0.18	28.4	2	5.3	70.8	1.08	<0.05	78.4	0.758
12399		280	42	147.5	0.002	<0.01	0.79	34.9	2	4.2	76.4	0.72	<0.05	25.6	0.427
12400		330	22.7	102.5	0.002	<0.01	0.53	44.1	2	6.2	62.9	0.79	<0.05	32.6	0.456
12401		450	6.3	49.5	0.003	0.01	0.05	15.5	2	6.7	65	1.23	<0.05	31.3	0.369
12402		1280	58.8	131.5	0.004	0.01	0.05	5.8	3	2.6	220	0.34	<0.05	580	0.306
12403		410	22.9	178	0.004	0.01	<0.05	22	1	5.8	147	1.05	<0.05	103.5	1.065
12404		1990	93.5	124.5	0.005	0.01	<0.05	9.6	5	2.8	208	0.58	<0.05	1010	0.428
12405		810	35.4	203	0.004	0.01	<0.05	15.3	2	6.3	164.5	0.96	<0.05	301	0.658
12406		410	21.1	145.5	0.003	0.01	<0.05	12.6	1	2.1	144	0.66	<0.05	120.5	0.533



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Page: 2 - D

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03
FLUSH A		0.6	16	0.3	6	11	33.5	1.16	0.63	0.83	1.65	0.23	0.09	9.8	2.93	1.75
FLUSH B		0.6	15	0.3	6.4	10	31.8	1.31	0.62	0.84	1.81	0.23	0.09	11.1	3.42	1.99
FLUSH C		0.6	16	0.9	6.4	12	32.9	1.27	0.67	0.85	1.64	0.23	0.1	10	3.07	1.79
12370		1.7	35	0.4	29.8	29	82.4	6.84	3.4	1.59	9.43	1.25	0.47	47.8	13.7	9.76
12371		1.6	40	0.7	40.3	38	78.4	8.24	4.7	1.62	9.42	1.63	0.67	46.2	13.05	9.9
12372		1.6	45	0.8	47.6	58	85.2	8.79	5.72	1.66	9.32	1.88	0.82	46.5	12.95	9.75
12373		2.9	77	1.9	65.2	75	92.2	14.35	7.51	2.2	19.2	2.74	1.07	96	25.9	20.4
12374		4	188	4.5	104.5	133	91.8	22	12.05	2.38	30.2	4.35	1.67	136.5	38.4	29.5
12375		2.2	56	1.5	58.9	66	98.9	11.65	6.87	1.81	13.6	2.41	1	65	17.15	13.85
12376		3	68	1.9	64	70	106	14.5	7.24	2.26	20.4	2.65	0.96	97.8	26.2	20.7
12377		2.1	50	0.8	58.2	61	84.6	10.65	6.85	1.89	12.6	2.28	1.02	65.3	18.7	13.2
12378		1.3	54	1.1	29.1	104	63	6.23	3.39	1.6	7.75	1.19	0.5	40.4	11.55	8.14
12379		1.7	152	0.7	65.1	59	97.3	11.9	7.79	1.59	11.5	2.62	1.18	49.3	14.1	10.9
12380		1.8	90	0.6	44	46	96	8.65	5	1.57	10.35	1.78	0.71	49.8	13.95	10.55
12381		1.4	104	0.9	31.8	65	62.8	7	3.53	2.25	9.21	1.31	0.51	47.9	13.35	9.44
12382		1.7	114	0.6	54.8	107	67	10.55	6.35	1.79	11.75	2.2	0.98	57.5	15.6	12.05
12383		2	67	0.7	44.7	54	56	10.85	4.98	2.2	16.35	1.91	0.61	86.7	23.2	17.1
12384		1.3	275	1.2	29.9	107	31	7.02	3.18	1.62	12.55	1.21	0.35	70.4	19.85	12.55
12385		1.8	221	1	51.2	130	51.6	11.15	5.63	1.9	16	2.06	0.78	81.3	22	15.85
12386		1.4	96	0.6	51.7	66	82.1	9.65	6.16	1.69	10.3	2.1	0.9	49.2	13.9	10.55
12387		1.6	65	0.9	47.8	150	73.9	9.87	5.79	2.5	11.8	2.01	0.85	57	15.2	12.3
12388		1.2	48	0.5	31.2	41	78.5	6.03	3.59	1.6	6.89	1.26	0.51	34.3	9.42	7.13
12389		1.5	28	0.7	21.6	40	61.8	5.14	2.5	1.5	6.99	0.93	0.33	37.5	10.8	7.85
12390		1.3	81	0.5	43.5	44	77.1	8.59	4.99	1.64	9.47	1.75	0.73	47.4	12.8	9.96
12391		1.3	76	0.5	34.3	45	76.9	7.28	4.08	1.8	8.86	1.44	0.58	46.2	13.05	9.22
12392		1.1	85	0.5	49.2	45	81.6	8.72	5.79	1.71	8.24	1.95	0.87	37.7	10.4	8.26
12393		1.1	134	1.4	24.4	83	26.4	5.29	2.51	1.63	8.73	0.94	0.3	54.4	15.5	9.62
12394		1.3	53	0.8	24.8	66	39.4	5.27	2.85	1.5	7.04	1	0.41	38.5	11	7.67
12395		1.3	241	1.6	63.7	137	78.2	12.45	7.31	2.03	13.9	2.58	1.12	65.8	17.3	13.2
12396		1.1	149	0.9	32.7	235	32.5	6.41	3.36	1.71	9	1.26	0.42	49.3	14.3	9.27
12397		0.9	141	0.8	30.4	144	24.2	6.19	3.37	1.68	7.8	1.2	0.45	43.2	12.55	7.96
12398		2.2	196	2.4	69.2	117	67.3	14.6	7.3	2.24	21.8	2.73	0.93	115.5	32.4	22.3
12399		1.6	127	1.2	39.1	120	33.8	7.85	4.28	1.73	10.3	1.51	0.57	58.2	16.65	10.5
12400		1.8	178	2	45.1	162	30.2	8.71	4.82	1.74	11.5	1.71	0.64	63.2	17.95	11.4
12401		3.8	20	0.2	79.9	10	99.4	15.7	9.04	3.44	17.85	3.11	1.27	82.5	22	18.65
12402		5.8	22	0.4	91.2	26	135.5	30.8	8.78	6.3	97.2	3.88	0.36	716	232	95.2
12403		1	54	0.5	19.5	83	16.4	6.53	1.92	3.46	20.6	0.82	0.14	152	47.9	19.45
12404		9.6	20	0.4	151.5	36	187	51.2	14.6	7.89	153	6.51	0.57	1130	361	148.5
12405		3.7	40	0.5	64.1	51	48.7	21	6.03	4.72	61.3	2.72	0.3	429	138.5	61.5
12406		1.8	26	0.3	19.4	52	122.5	5.89	1.8	2.36	16.15	0.8	0.15	119.5	36.1	16.75



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Page: 2 - E

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method	ME-MS61r	ME-MS61r	ME-MS61r
	Analyte	Tb	Tm	Yb
	Units LOR	ppm	ppm	ppm
		0.01	0.01	0.03
FLUSH A		0.23	0.09	0.55
FLUSH B		0.26	0.08	0.54
FLUSH C		0.24	0.09	0.59
12370		1.4	0.46	2.99
12371		1.5	0.67	4.33
12372		1.56	0.79	5.22
12373		2.93	1.05	6.87
12374		4.47	1.68	11.25
12375		2.17	1	6.52
12376		3	0.97	6.24
12377		1.94	1.04	6.71
12378		1.19	0.48	3.16
12379		1.99	1.18	7.79
12380		1.64	0.72	4.67
12381		1.39	0.49	3.23
12382		1.88	0.96	6.32
12383		2.25	0.64	4.09
12384		1.51	0.38	2.42
12385		2.19	0.8	5.18
12386		1.72	0.89	5.86
12387		1.86	0.84	5.67
12388		1.11	0.51	3.28
12389		1.05	0.33	2.09
12390		1.54	0.72	4.74
12391		1.39	0.57	3.71
12392		1.43	0.88	5.74
12393		1.11	0.32	2.08
12394		1.02	0.4	2.61
12395		2.21	1.08	7.28
12396		1.26	0.45	2.82
12397		1.15	0.46	2.98
12398		2.99	0.98	6.16
12399		1.49	0.59	3.78
12400		1.65	0.66	4.35
12401		2.87	1.31	8.31
12402		8.15	0.56	2.68
12403		1.75	0.14	0.74
12404		13.65	0.93	4.48
12405		5.42	0.43	2.18
12406		1.52	0.15	0.86



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Page: 3 - A

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt.	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r Cs ppm
		0.02	0.01	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
12407		2.49		<0.001	0.02	6.07	<0.2	650	1.24	0.11	2.24	0.12	110.5	22.5	109	4.61
12408		1.99		<0.001	0.03	5.7	<0.2	420	1.13	0.13	5.72	0.06	75.6	12.6	54	5.72
12409		1.64		0.001	0.02	6.07	0.6	460	1.07	0.18	3.85	0.06	68	10.8	46	5.67
12410		2.18		0.001	0.03	6.33	0.2	420	1.21	0.17	5.72	0.07	67.2	11.5	42	5.77
12411		2.01		0.001	0.03	6.09	<0.2	360	1.14	0.13	4.9	0.1	101.5	21.3	107	4.48
12412		2.18		0.001	0.02	6.19	0.6	410	1.25	0.13	4.37	0.1	71.3	17.1	75	4.82
12413		2.11		0.001	0.03	5.18	<0.2	280	1.19	0.27	8.46	0.13	76.4	17.1	62	6.05
12414		2.47		<0.001	0.02	4.85	<0.2	280	1	0.16	8.12	0.07	71.5	14.3	55	4.35
12415		1.60		0.001	0.03	7.1	1.3	450	1.91	0.2	1.95	0.1	83.4	18.4	62	5.54
12416		2.22	90.0	0.002	0.05	5.05	<5	460	0.9	0.16	13.65	0.09	44	6.7	22	10.9
12417		2.21		0.001	0.04	7.11	0.6	420	1.69	0.21	4.89	0.07	65.1	14.8	58	8.94
12418		2.32		0.001	0.04	5.85	<0.2	340	1.38	0.21	8.12	0.09	87.8	16.4	64	6.08
12419		2.34		0.001	0.05	5.74	<0.2	300	1.18	0.25	8.03	0.07	88	18.5	92	5.51
12420		2.11		0.001	0.02	4.8	0.8	590	0.98	0.17	2.04	0.07	137	14.8	63	3.06
12421		2.01		0.001	0.04	5.56	<5	350	1.4	0.27	11.85	0.09	65	11.2	36	9.44
12422		1.61		0.001	0.03	5.86	<0.2	530	1	0.16	5.3	0.07	62.3	13.1	52	4.12
12423		2.12		<0.001	<0.01	5.25	0.5	620	0.96	0.15	0.89	0.04	169	18.6	113	2.2
12424		2.13		0.001	<0.01	5.23	0.9	540	0.97	0.11	0.83	0.06	88	13.8	45	1.82
12425		2.44		<0.001	0.03	4.76	0.9	580	0.88	0.18	2.03	0.07	248	18.3	93	2.16
12426		2.43		<0.001	0.03	5.46	0.5	440	0.99	0.24	5.57	0.1	65.9	12.7	64	6.35
12427		2.26		0.001	<0.01	5.04	<0.2	370	1.05	0.15	3.79	0.08	82.6	23.5	95	2.55
12428		2.58		<0.001	0.02	4.77	0.6	380	0.78	0.09	1.38	0.07	217	19.8	80	1.37
12429		2.37		<0.001	<0.01	4.83	0.6	400	1.16	0.28	0.85	<0.02	45	8.8	15	1.63
12430		1.57		0.001	<0.01	4.81	0.9	660	0.97	0.13	1.82	0.04	92.6	13.5	53	1.73
12431		1.98		<0.001	<0.01	4.7	1.1	570	0.96	0.11	1.17	0.03	112.5	13.4	51	1.36
12432		2.54		<0.001	<0.01	4.38	0.5	680	0.93	0.1	1.42	0.03	89	10.5	39	1.59
12433		2.06		0.001	<0.01	5.87	1.5	520	1.36	0.12	1.27	0.05	99.2	16.5	50	2.54
12434		2.09		<0.001	<0.01	4.43	1	540	0.9	0.08	0.74	0.04	134	12.5	42	1.12
12435		1.58		<0.001	<0.01	4.86	0.7	490	0.98	0.06	0.84	0.03	82.4	7.3	19	0.52
12436		1.77		<0.001	<0.01	4.83	0.4	450	0.95	0.11	0.97	0.02	82	7.9	31	0.69
12437		1.83		<0.001	<0.01	5.03	0.6	770	0.85	0.04	0.77	0.06	224	5	12	1.42
12438		1.47		<0.001	<0.01	4.69	0.6	870	0.96	0.02	0.56	0.04	77.8	10	28	1.01
12439		1.75		<0.001	0.02	5.89	0.8	630	1.21	0.04	0.7	0.08	127.5	14.6	42	0.85
12440		1.59		0.001	<0.01	5.9	0.8	550	1.25	0.04	0.78	0.08	98.4	15.7	47	0.77
12441		2.24		<0.001	<0.01	4.91	0.4	560	0.82	0.03	1.3	0.04	47.7	11.1	31	0.53
12442		1.36		<0.001	<0.01	4.83	0.9	590	0.94	0.04	1.15	0.05	82.5	18.9	38	0.67
12443		1.75		<0.001	<0.01	4.65	1.2	390	1.17	0.05	0.41	0.03	131.5	12.9	28	0.66
12444		1.63		<0.001	<0.01	4.99	0.9	460	1.07	0.04	1.02	0.04	169.5	14.8	40	0.72
12445		1.28		0.001	<0.01	4.61	1.3	530	1.18	0.04	0.84	0.03	100.5	12.9	34	0.74
12446		1.74		0.001	0.02	5.56	1.8	310	1.18	0.12	0.81	0.03	276	21.8	75	0.95



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Page: 3 - B

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
12407		10.8	8.58	19.75	0.19	0.9	0.082	3.09	56.6	22.6	1.2	1255	0.36	0.32	6.3	32.7
12408		14.6	4.09	14.65	0.14	1.2	0.048	3.04	36.8	16.4	1	648	0.52	0.24	7.5	17.2
12409		12.3	4.05	14.55	0.14	1.1	0.049	3.42	33.8	12.9	0.7	728	0.74	0.22	6.6	14.6
12410		9.7	4.09	15.8	0.13	1	0.057	3.14	34.7	14.5	0.81	790	0.37	0.26	7.6	14.5
12411		10.7	9.46	19.6	0.2	1	0.087	2.43	50.5	21.9	1.34	1315	1.24	0.31	6.2	27.6
12412		12.1	6.56	16.4	0.15	1.1	0.066	2.73	36	21.9	1.17	998	0.45	0.34	6.8	21.3
12413		9.2	6.16	14.6	0.14	1.4	0.075	2.05	37.4	20.2	1.94	1480	1.31	0.2	10.1	18.6
12414		6.9	5.79	13.1	0.13	1.2	0.061	2.07	35.3	17.3	2.1	1810	0.49	0.23	8.2	15.6
12415		46.1	4.24	18.5	0.14	1.6	0.064	2.67	41.3	24.9	1.24	578	0.87	0.39	8	31
12416		12.2	1.9	11.4	0.11	0.8	0.032	3.65	23.5	15.8	1.18	845	0.38	0.21	5.9	7
12417		17.4	5.54	18.1	0.13	1.1	0.079	2.85	31.8	26.6	1.17	1450	0.54	0.16	7.1	16.5
12418		17.5	6.78	16.25	0.14	1	0.071	2.24	40.9	22.8	1.73	2470	0.65	0.2	8.3	18.2
12419		18.8	8.89	17	0.15	1.3	0.079	1.99	43.7	20.8	1.65	2920	0.74	0.16	7.5	23.5
12420		11.1	5.77	16	0.18	1.6	0.078	2.16	67.3	9.3	0.85	1025	0.68	0.46	8.2	18.8
12421		21.2	3.54	14.85	0.11	1.2	0.052	2.74	31.6	22.7	1.67	1270	0.51	0.2	9.3	13.7
12422		9.9	4.34	14.2	0.13	0.9	0.052	3.39	33.2	12.7	1	804	0.92	0.33	6.3	18.2
12423		10.5	7.39	17.65	0.22	1.1	0.083	3.04	84	9.8	0.85	831	0.28	0.35	6.4	29.6
12424		19.9	4.2	14.75	0.13	1.9	0.075	2.88	41.6	9.7	0.73	439	0.63	0.55	7.1	19.8
12425		9	7.96	17.85	0.27	1.9	0.101	1.97	123	7.5	1	1115	0.94	0.49	11	22.7
12426		10.9	3.79	12.5	0.12	1.6	0.057	2.76	31.5	15.3	1.83	790	0.45	0.27	7.4	19.3
12427		12.2	6.58	13.65	0.23	1.4	0.09	1.81	41.1	13.3	2.36	1075	0.55	0.51	9.2	30.9
12428		9.9	7.95	13.05	0.4	0.9	0.103	1.68	109.5	9.1	1.58	1215	0.28	0.24	8.9	18.3
12429		7	2.24	10.7	0.12	1	0.037	2.15	21.2	5.5	0.48	307	0.48	1.24	4.8	9.8
12430		8.5	4.92	13.1	0.22	1.8	0.075	2.09	49.3	7	0.96	814	0.47	0.55	8	17.9
12431		10.4	4.82	13.7	0.24	2.2	0.074	2.22	56	6.8	0.69	623	1.04	0.66	9	21.5
12432		6.8	3.48	11.6	0.2	1.6	0.059	2.24	47.5	6.3	0.76	539	0.29	0.59	6.2	14.6
12433		20	4.83	15.6	0.24	1.8	0.076	2.33	51.1	15.5	1.08	651	0.72	0.48	9.5	24.1
12434		10.9	4.41	12.35	0.26	2.5	0.06	2.16	66.3	6.7	0.65	491	0.37	0.52	9.2	15.1
12435		6.6	2.32	11.1	0.17	2	0.037	1.81	38.7	3.5	0.26	403	1.08	1.27	7.8	8.8
12436		5.4	3.14	11.45	0.18	1.8	0.034	1.74	41.4	4.1	0.41	410	0.37	1.28	5.9	10.3
12437		4.8	2.61	12.1	0.33	1.3	0.038	2.88	113	9	0.3	526	0.63	0.78	6.6	5.4
12438		7.9	4.04	11.35	0.19	0.8	0.055	2.59	39	7.1	0.55	571	0.38	0.5	7.6	11.1
12439		8.9	6	13.7	0.31	0.9	0.089	2.7	61.3	9.7	0.96	939	0.79	0.62	7.6	11.9
12440		9.4	6.6	13.7	0.27	1	0.093	2.36	48.3	9.2	1.06	1050	0.58	0.57	8.1	11.9
12441		6.8	3.46	10.75	0.15	0.7	0.036	2.55	24.4	4.9	0.74	514	0.97	0.82	4.7	11
12442		16.6	6.2	12.8	0.24	1.3	0.077	1.82	42.9	7	1.29	740	0.46	0.59	6.9	14.8
12443		11.3	5.59	11.5	0.28	2	0.101	1.36	66	6.5	1.38	525	0.86	0.32	6.7	10.7
12444		12.5	5.83	14.9	0.34	2.8	0.1	1.74	84.5	6.6	0.96	691	0.49	0.61	13.5	12.5
12445		13.3	4.82	13.6	0.24	1.7	0.082	2	50.9	6.6	0.76	524	0.99	0.58	9.9	12.9
12446		14.6	8.3	16.5	0.5	3.4	0.122	1.42	133	7.1	1.14	964	0.75	0.44	13	21.4



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Page: 3 - C

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
12407		310	27.8	151	0.002	<0.01	0.39	26.4	1	3.8	81	0.57	<0.05	20.4	0.297
12408		310	16.4	160.5	0.002	<0.01	0.35	15	1	3.1	81.8	0.65	<0.05	11.7	0.259
12409		230	16.8	184	0.003	<0.01	0.35	15	1	2.7	74.4	0.61	<0.05	11	0.219
12410		240	20.9	181	0.002	<0.01	0.4	18	1	2.8	85.3	1.05	<0.05	10.7	0.212
12411		330	19.1	128	0.002	<0.01	0.7	34	1	3.5	64.3	0.56	<0.05	15.5	0.23
12412		340	20.3	138.5	0.002	<0.01	0.5	25	1	3.1	70.4	0.61	<0.05	11.1	0.248
12413		280	17.2	107.5	0.002	<0.01	2.57	28.3	1	3.9	47.7	0.93	<0.05	10.9	0.289
12414		280	16	113	0.002	<0.01	0.27	24.1	1	3.3	52.2	0.87	<0.05	12.4	0.242
12415		620	20.4	158	0.002	0.01	0.32	17.3	1	3.3	67	0.7	<0.05	14.7	0.332
12416		260	22.6	206	0.002	<0.01	0.36	7.3	1	2.2	93.7	0.59	<0.05	6.2	0.156
12417		270	22.4	172	0.002	<0.01	0.49	23.7	1	3.7	52.9	0.76	<0.05	11.4	0.238
12418		340	19.7	130.5	0.002	<0.01	1.09	29.5	1	3.8	63.2	0.78	<0.05	13.7	0.269
12419		300	19.1	111.5	0.002	<0.01	1.67	34.8	1	3.9	54.7	0.8	<0.05	15	0.289
12420		240	17.7	109.5	0.002	<0.01	0.55	19.6	1	4.6	60.5	0.78	<0.05	27	0.419
12421		250	21.6	168.5	0.002	<0.01	0.83	14.7	1	3.8	79.4	0.88	<0.05	11	0.244
12422		290	22.5	173	0.002	<0.01	0.39	16.4	1	3.6	80.5	0.6	<0.05	10.8	0.246
12423		280	20.4	157	0.002	<0.01	0.13	20.3	1	5.4	60	0.52	<0.05	33.4	0.385
12424		220	16.1	156	0.002	<0.01	0.08	16	1	2.7	49.6	0.53	<0.05	18.8	0.288
12425		290	17.2	89.4	0.002	<0.01	0.59	24.2	2	6.6	61.3	1.04	<0.05	46.7	0.669
12426		220	16.4	127	0.002	0.01	1.28	18.6	1	3	74.7	0.77	<0.05	11.9	0.319
12427		240	14.7	88.6	<0.002	<0.01	0.47	30.4	2	3.3	37.8	0.74	<0.05	23.2	0.5
12428		300	14	80	<0.002	<0.01	0.38	32.2	3	3.8	27.5	0.74	<0.05	50.1	0.578
12429		210	16.9	108	<0.002	<0.01	0.06	9	1	2.3	57.8	0.41	<0.05	11.5	0.22
12430		220	15.3	89	<0.002	<0.01	0.35	17.6	2	3.7	65.2	0.61	<0.05	18.8	0.388
12431		190	13.9	105.5	<0.002	<0.01	0.2	14.8	2	3.2	62.9	0.65	<0.05	24.1	0.402
12432		200	15.9	94.5	<0.002	<0.01	0.31	13.1	2	2.7	65.3	0.46	<0.05	18.9	0.288
12433		360	16.8	126	<0.002	0.01	0.34	21.2	2	2.8	62.8	0.67	<0.05	24.1	0.381
12434		240	15.3	99.4	<0.002	<0.01	0.12	15.5	2	2.6	59.4	0.65	<0.05	33.6	0.48
12435		130	17.6	68.2	<0.002	<0.01	0.06	7.9	2	1.8	80.9	0.6	<0.05	19.9	0.364
12436		200	16.9	77.8	<0.002	<0.01	<0.05	8.9	2	2.1	77.1	0.48	<0.05	23.2	0.317
12437		300	27.6	125.5	<0.002	<0.01	0.06	12.9	2	1.3	74.7	0.5	<0.05	59.7	0.232
12438		240	74.6	117	<0.002	<0.01	<0.05	17.2	2	2	101.5	0.47	<0.05	16	0.322
12439		320	21.8	124	<0.002	<0.01	<0.05	27.7	3	1.8	75.9	0.47	<0.05	35.1	0.347
12440		300	19.1	108.5	<0.002	<0.01	<0.05	30.2	3	1.9	70.7	0.52	<0.05	26.1	0.381
12441		270	17.6	109.5	<0.002	<0.01	<0.05	13.6	2	1.2	71	0.31	<0.05	10	0.319
12442		320	10.1	70.3	<0.002	<0.01	<0.05	25.6	3	1.7	51.6	0.43	<0.05	16.6	0.403
12443		220	7	59	<0.002	<0.01	<0.05	24.4	3	1.9	24.2	0.42	<0.05	29.1	0.287
12444		390	10.6	71.8	<0.002	0.01	0.05	24.3	3	2	50.9	0.89	<0.05	42.4	0.559
12445		310	10.2	81.7	<0.002	0.01	0.05	19.1	3	1.7	52.9	0.61	<0.05	22.2	0.384
12446		330	13.9	62.2	0.002	<0.01	0.09	30.7	4	3.5	40	0.97	<0.05	72.3	0.893



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Page: 3 - D

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03
12407		1.3	117	1.6	28.2	118	25.6	5.94	3.03	1.64	8.24	1.13	0.38	47.1	13.5	8.38
12408		1.2	69	1	22.9	47	34.6	4.46	2.27	1.33	5.73	0.85	0.27	32.7	9.57	5.96
12409		1.3	62	1.4	24.3	37	31.8	4.54	2.62	1.36	5.62	0.92	0.34	31.1	8.94	5.92
12410		1.3	58	1.2	24.5	48	27	4.73	2.85	1.31	5.76	0.99	0.38	30	8.63	5.85
12411		1.8	109	2.6	35.8	115	28.1	6.88	4.01	1.37	7.79	1.38	0.54	42.1	12.25	7.79
12412		1.4	83	1.3	26.9	84	29.8	5.2	3.1	1.35	6.06	1.08	0.42	32.4	9.14	6.02
12413		2.3	73	1.9	38.3	81	40.2	6.47	4.1	1.35	6.66	1.41	0.59	33.1	9.19	6.5
12414		1.9	64	1.6	37.5	73	29.1	7.04	4.27	1.27	7.07	1.48	0.6	33.6	9.24	6.8
12415		1	70	1.2	21.2	79	44.4	4.76	2.27	1.7	7.1	0.85	0.27	40.7	11.7	7.4
12416		1.1	28	1.5	21.3	31	19.7	3.54	2.09	0.91	4.07	0.72	0.27	21.3	6.01	4.09
12417		1.4	66	1.6	30.8	66	28.3	6.14	3.63	1.23	6.05	1.25	0.51	28.9	8.35	5.59
12418		1.7	76	1.5	39.5	82	30.2	6.76	4.36	1.24	7.07	1.46	0.63	35.8	10.35	6.93
12419		1.7	99	2.3	45.5	94	33.2	8.27	5.61	1.26	7.85	1.83	0.86	37.4	10.7	7.09
12420		1.6	93	1.2	37.2	58	44.5	7.99	4.55	1.62	10.8	1.59	0.64	64.7	18.25	11.15
12421		1.8	51	2.1	31.3	57	33.7	5.42	3.25	1.17	5.74	1.11	0.44	29.6	8.39	5.84
12422		1	65	1.7	22.7	55	23.8	4.3	2.42	1.53	5.42	0.87	0.32	29.6	8.52	5.6
12423		1.4	121	0.9	34.9	80	30.5	8.46	3.96	2.3	13.35	1.51	0.42	80.9	22.9	14.65
12424		1.1	76	0.9	27.5	51	52.2	5.92	3.21	1.79	8.2	1.14	0.46	44.9	12.35	8.49
12425		1.7	143	1.6	50.2	74	52.1	10.7	6.03	2.13	16.85	2.08	0.87	108.5	30.3	18.15
12426		1.7	76	1.5	31	46	40.7	5.74	3.67	1.51	6.24	1.23	0.56	32.5	9.31	6.41
12427		1.5	145	0.7	48.1	68	35.8	7.33	4.66	1.15	7.78	1.49	0.66	33.4	8.51	7.1
12428		2	149	0.8	66.9	65	21.5	11.95	6.4	1.73	16.5	2.17	0.84	85.9	22.9	16.25
12429		0.9	53	0.7	12.4	22	26.1	2.44	1.18	0.69	3.41	0.4	0.15	16.6	4.32	3.53
12430		1.2	84	0.8	39.4	53	51.1	6.26	3.94	1.27	7.15	1.24	0.61	36.5	9.56	7
12431		1.2	87	0.9	37.6	43	61.2	6.69	3.76	1.46	8.36	1.21	0.53	43.6	11.15	8.15
12432		1.3	63	0.5	29	38	45.6	5.19	2.85	1.27	6.86	0.94	0.4	36.1	9.34	6.67
12433		1.2	84	0.9	41.3	55	50.8	6.99	4.06	1.41	7.73	1.34	0.57	40.4	10.7	7.59
12434		1.5	95	0.6	37.7	37	66.1	7.03	3.7	1.4	10.05	1.23	0.51	54.1	14	10.3
12435		1	48	0.4	23.3	20	56.3	4.31	2.37	0.96	5.96	0.76	0.36	30.3	7.9	6.01
12436		1.4	60	0.5	20.3	24	51.8	4.04	1.96	0.97	6.25	0.67	0.28	33.1	8.49	6.53
12437		2.3	25	0.4	47.5	27	33.7	8.93	5.11	1.66	14.85	1.58	0.69	86.4	23.1	15.65
12438		0.6	65	0.6	41.3	42	21.9	6.25	4.38	1.33	5.83	1.3	0.7	28	7.44	5.18
12439		1	75	0.8	72.6	48	24	10.9	6.94	1.2	9.47	2.2	0.95	49.6	13	8.74
12440		1	85	0.9	79	59	25.4	11.85	7.61	1.13	8.93	2.44	1.1	38.2	9.89	7.09
12441		0.5	94	0.5	27.7	25	18.9	4.16	2.81	0.97	4.02	0.87	0.42	18.3	4.75	3.72
12442		0.6	109	0.8	71	42	32.9	10.35	7.28	1.44	7.67	2.23	1.07	32.8	8.39	6.35
12443		1.2	54	0.5	90.7	23	53.8	13.75	9.3	1.31	11.35	2.93	1.3	53.3	13.75	10.05
12444		1.3	97	0.9	78.8	44	73.7	12.65	8.07	1.56	14.2	2.53	1.21	69.4	18	13.25
12445		0.8	79	0.6	56.4	37	47	8.95	5.77	1.5	8.55	1.82	0.86	41.6	10.55	8.15
12446		2.8	199	0.9	97.7	53	89.4	17.45	9.85	1.8	22.9	3.2	1.35	114	29.2	22.9



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Page: 3 - E

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method	ME-MS61r	ME-MS61r	ME-MS61r
	Analyte	Tb	Tm	Yb
	Units LOR	ppm	ppm	ppm
		0.01	0.01	0.03
12407		1.13	0.4	2.55
12408		0.84	0.3	1.81
12409		0.85	0.36	2.29
12410		0.87	0.4	2.58
12411		1.19	0.56	3.65
12412		0.93	0.43	2.83
12413		1.11	0.6	3.92
12414		1.2	0.61	4.01
12415		0.95	0.29	1.8
12416		0.61	0.29	1.84
12417		1.04	0.53	3.42
12418		1.15	0.63	4.07
12419		1.34	0.84	5.47
12420		1.49	0.63	4.19
12421		0.94	0.46	2.94
12422		0.81	0.34	2.13
12423		1.76	0.48	2.88
12424		1.14	0.45	2.96
12425		2.08	0.84	5.63
12426		1.01	0.55	3.66
12427		1.22	0.65	4.42
12428		2.23	0.88	5.6
12429		0.46	0.16	1.05
12430		1.02	0.58	3.86
12431		1.15	0.52	3.42
12432		0.92	0.39	2.6
12433		1.14	0.58	3.75
12434		1.31	0.51	3.38
12435		0.79	0.34	2.3
12436		0.79	0.27	1.84
12437		1.75	0.71	4.66
12438		0.93	0.68	4.48
12439		1.61	1	6.57
12440		1.67	1.12	7.4
12441		0.64	0.41	2.75
12442		1.42	1.08	7.09
12443		2	1.37	8.92
12444		2.06	1.2	7.9
12445		1.38	0.85	5.65
12446		3.14	1.38	9.06



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Page: 4 - A

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt.	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al ppm	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca ppm	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r Cs ppm
		0.02	0.01	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
12447		1.65		0.001	<0.01	4.95	1	470	0.84	0.07	0.63	0.04	133	18.1	49	0.69
12448		1.23		0.002	0.02	4.84	1	360	0.77	0.24	5.1	0.06	135	15.2	45	1.92
12449		1.80		0.001	0.08	6.07	2.2	310	1.2	0.29	1.92	0.2	82	51.1	55	0.62
12450		1.56		0.001	0.03	5.62	1.2	360	0.97	0.08	1.95	0.06	114	31.9	154	1
12451		1.82		0.001	<0.01	5.07	1.8	410	0.92	0.09	2.11	0.06	116	17.3	46	1.52
12452		1.46		0.001	0.02	5.38	1.8	450	0.89	0.1	2.07	0.05	124	15.8	54	2.01
12453		1.86		0.001	<0.01	5.36	0.8	440	0.76	0.06	1.34	0.06	153	20.3	68	0.99
12454		1.48		<0.001	<0.01	4.73	1	530	0.74	0.06	0.79	0.03	96.6	13.3	45	1.25
12455		1.17		<0.001	<0.01	4.73	0.6	490	1.07	0.05	0.43	<0.02	82	4.5	10	1.47
12456		1.54	93.4	<0.001	<0.01	5.13	0.7	260	1.05	0.06	0.38	<0.02	77.5	5	11	1.14
12457		1.12		<0.001	<0.01	5.65	0.7	280	1.28	0.06	0.88	0.02	51.1	5.1	12	1.36
12458		1.22		<0.001	<0.01	4.76	0.6	470	1.06	0.04	0.73	0.03	77.4	8	19	1.26
12459		1.71		0.001	<0.01	4.98	0.7	380	1.12	0.7	1.2	0.04	51.6	15	24	1.23
12460		1.28		<0.001	<0.01	4.65	0.6	450	0.86	0.13	0.8	0.03	79.7	9.8	22	0.93
12461		1.66		<0.001	<0.01	5.35	0.5	250	1.39	0.93	1.69	0.04	51.5	20.5	30	1.75
12462		1.73		<0.001	<0.01	4.53	0.6	420	0.92	0.12	0.29	0.02	73.8	3.4	7	2.25
12463		1.83		<0.001	<0.01	5.7	0.8	290	1.11	0.24	0.93	<0.02	58.1	11	13	1.78
12464		1.69		<0.001	<0.01	5.12	0.5	490	0.9	0.19	1.2	0.03	59.7	11.9	27	1.04
12465		2.10		<0.001	<0.01	5.3	0.5	450	0.86	0.09	1.13	0.03	68.7	12.3	36	1.11
12466		1.50		0.001	<0.01	4.8	0.8	630	1.03	0.13	0.96	0.02	49.9	11.4	23	1.24
12467		1.77		<0.001	<0.01	5.09	0.8	390	1	0.4	1.46	0.03	96.8	19.2	36	1.27
12468		1.70		<0.001	<0.01	5.49	1.1	630	1.73	0.64	0.81	0.02	88.1	9.9	25	2.22
12469		1.74		<0.001	<0.01	5.15	1.1	920	1.36	0.84	0.52	0.03	118	9.1	19	1.77
12470		1.48		0.001	0.03	5.41	0.7	490	1.78	0.9	0.9	0.03	74	10	20	1.87
12471		2.16		<0.001	<0.01	5.75	0.3	420	1.58	0.07	1.27	0.02	35.3	9.3	20	0.93
12472		1.55		0.001	<0.01	4.98	0.8	750	1.31	0.19	0.77	0.02	151.5	8.1	18	1.08
12473		1.56		0.001	<0.01	4.72	0.9	620	1.28	0.23	0.97	0.02	>500	17.8	59	1.01
12474		1.47		<0.001	<0.01	5.5	0.3	650	1.34	0.07	1.32	0.02	74.3	10.8	28	0.64
12475		1.45		0.001	<0.01	5.53	0.8	610	0.98	0.13	0.92	0.03	118.5	13.9	60	1.13
12476		1.21		<0.001	<0.01	5.09	1	590	0.96	0.07	1.03	0.03	80.3	12.2	30	0.8
12477		0.89		0.001	<0.01	4.96	0.7	500	0.99	0.13	0.79	0.02	59.8	8	24	1.24
12478		1.02		0.001	<0.01	5.68	1.2	690	1.65	0.75	1.34	0.05	404	16.1	46	1.95
12479		1.62		0.001	<0.01	4.38	1.8	560	0.86	0.15	0.38	0.02	76	7.8	35	1.55
12480		3.17		0.001	<0.01	4.94	0.5	610	1.13	0.09	1.07	0.02	65.3	8.8	24	0.72
12481		2.28		0.001	<0.01	6.12	1.3	550	1.57	0.16	1.03	0.06	82.2	13.8	43	1.69
12482		2.77		<0.001	<0.01	3.57	0.6	580	0.67	0.05	0.58	0.02	24.1	3.4	13	0.53
12483		2.27		0.001	<0.01	4.61	0.6	730	0.88	0.07	0.9	0.03	54.5	7.4	23	1
12484		2.23		0.001	<0.01	5.62	1.5	510	0.54	0.09	0.65	0.03	466	14.4	71	0.6
12485		2.11		0.001	<0.01	5.71	1.9	510	1.15	0.13	0.93	0.05	357	16	73	2.16
12486		2.21		<0.001	<0.01	3.95	0.8	680	0.4	0.03	0.38	0.04	70.2	8.9	34	0.65



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Page: 4 - B

Total # Pages: 6 (A - E)

Plus Appendix Pages

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CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
12447		13.2	6.74	13.95	0.32	1.6	0.095	1.9	64.1	5.9	1.23	727	1.12	0.43	9.8	15.3
12448		18	4.99	12.6	0.29	1.5	0.07	2.13	66.4	10.2	1.03	757	0.55	0.28	9	16.6
12449		48	18	24	0.51	1.1	0.218	0.98	37.1	8.1	2.64	2920	0.74	0.43	15.8	27.2
12450		21.5	7.22	15.3	0.29	1.2	0.09	1.65	56.3	8.8	2.45	924	0.46	0.56	7.7	58
12451		20.5	4.89	13.4	0.25	1.9	0.074	1.82	55.9	12	0.93	621	0.81	0.32	8.6	20.3
12452		17.3	4.93	13.65	0.28	1.4	0.077	2.09	60.2	10.8	1.2	666	0.46	0.29	8.5	21.6
12453		11.6	7.34	14.65	0.34	1.2	0.114	2.02	75.1	8.2	1.59	1025	0.79	0.42	13.4	22
12454		8.8	4.73	11.7	0.22	1.4	0.069	2.25	46.3	7.6	0.75	706	0.52	0.41	8.6	14.3
12455		5.5	1.84	10.75	0.17	1.4	0.027	2.53	39.9	6.1	0.21	224	1.12	1.02	6.1	6.2
12456		4	1.6	11.2	0.16	1.4	0.023	1.71	39.2	4.5	0.23	152	0.46	1.81	6.8	6
12457		5.7	1.69	12.65	0.14	1.2	0.027	1.54	26.9	5.8	0.4	177	1.09	2.18	5.4	7.7
12458		7.1	2.66	11.3	0.2	1.1	0.044	2.29	40.3	5.7	0.61	329	0.36	0.98	6.6	8.8
12459		10.3	3.57	11.9	0.18	1.2	0.062	2.02	26	5.4	0.93	508	0.6	1.19	5.7	14.5
12460		6.7	3.16	11.1	0.21	1.2	0.045	2.25	40.6	4.5	0.62	443	0.39	1	7.1	9.7
12461		14.2	4.21	13.3	0.19	1.3	0.082	1.52	25.7	7.3	1.33	605	0.91	1.44	5.5	21.1
12462		4.8	1.49	10.6	0.16	1.6	0.024	3.03	36.7	6.1	0.24	186	0.44	0.65	5.3	4.2
12463		7.5	3.18	13.6	0.18	1.5	0.046	1.88	30.1	5	0.63	370	0.55	1.95	6.1	10.2
12464		8.6	3.18	12.7	0.19	1.2	0.044	2.41	30.7	5	0.8	432	0.3	1.13	6	13.3
12465		9.7	3.03	12.75	0.19	1.3	0.041	2.1	35.2	5	0.77	387	0.57	1.38	6.3	25.7
12466		10.7	3.22	12.3	0.17	1	0.042	2.28	24.7	6	0.58	501	0.36	0.82	8.8	12.1
12467		13	5.49	14.25	0.26	1.4	0.062	1.99	48.8	6.1	1.02	837	1.06	1.05	10.2	17.9
12468		13.5	2.78	13.4	0.21	1.3	0.039	2.62	43.8	8.8	0.49	419	0.62	0.82	6.7	13.3
12469		9.8	2.09	12.2	0.2	0.8	0.03	2.98	47.2	6.6	0.37	349	0.97	0.76	6.2	11.8
12470		11.2	2.3	14.05	0.19	1.1	0.038	2.24	37.2	7.7	0.45	354	0.47	1.21	6.1	12.3
12471		7.2	2	12.85	0.13	1	0.028	1.65	18.2	4.4	0.61	277	0.79	1.83	3.8	12.5
12472		9.8	2.06	11.5	0.24	1.1	0.024	2.51	74.4	6.5	0.31	354	1.28	1.25	4.5	9.8
12473		10.4	7.43	17.5	0.93	2.5	0.052	1.88	317	5.7	0.5	981	1.12	0.83	16.4	15.8
12474		12.4	2.9	13.3	0.2	1.2	0.042	2.1	39.8	4.1	0.68	368	0.97	1.34	5.7	17.2
12475		9.5	5.03	14.35	0.27	1.4	0.057	2.57	61.3	6.5	0.76	725	0.41	0.9	6.7	19.7
12476		12.5	3.03	11.95	0.19	1.1	0.036	2.05	40.1	5.1	0.48	564	1.06	0.98	5	14.1
12477		7.5	2.38	10.75	0.16	1.2	0.029	2.33	30.7	4.6	0.45	365	0.5	1.08	8.6	10.8
12478		13.8	4.73	16.7	0.56	1.7	0.058	2.48	202	6.7	0.87	938	1.26	0.67	18.1	21.2
12479		10.3	2.79	10.7	0.18	1.5	0.035	2.01	39	8	0.25	362	0.59	0.36	6.5	12.3
12480		7.1	2.54	11.7	0.18	1.2	0.037	2.19	35.4	4.1	0.51	369	0.53	1.15	4.8	13
12481		16.8	3.58	15.95	0.23	1.6	0.054	2.11	44.3	9.4	0.68	558	0.73	0.94	7.6	21.9
12482		5	1.2	6.73	0.09	0.8	0.014	2.08	13.6	2.8	0.16	177	1.1	0.68	2	6.4
12483		5.9	2.34	10.5	0.16	1.1	0.037	2.52	30.3	4.3	0.46	349	0.35	0.86	4.4	10.3
12484		9.5	7.52	17.3	0.66	2.2	0.089	1.52	231	7	0.55	883	1.04	0.25	21.6	12.8
12485		14.7	6.58	16.85	0.55	2.1	0.088	1.98	181.5	11.4	0.72	886	0.55	0.35	16	20.3
12486		6.3	3.34	8.35	0.19	0.7	0.043	2.37	35.4	5	0.43	538	0.74	0.31	5.3	8.5



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Page: 4 - C

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

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		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
12447		320	11.4	88.2	<0.002	<0.01	<0.05	26.5	3	2.8	48.9	0.64	<0.05	34.4	0.542
12448		270	15.4	116.5	<0.002	0.01	0.64	22.7	3	2.6	44.6	0.65	0.05	35.8	0.347
12449		560	13.5	40.6	<0.002	0.01	0.1	72.1	5	6.4	38.1	1.12	<0.05	13.3	1.65
12450		300	12.7	80.8	<0.002	0.01	0.17	35.4	2	2.6	45.4	0.53	<0.05	27.6	0.522
12451		210	14.3	95.8	<0.002	0.01	0.17	20.2	2	2.5	56.8	0.61	<0.05	30.2	0.426
12452		220	15.8	113	<0.002	0.01	0.56	24.1	2	2.4	54.3	0.63	<0.05	33.5	0.364
12453		290	14.1	101.5	0.002	<0.01	0.31	34.9	4	3.3	43.1	0.91	<0.05	42	0.606
12454		200	15.2	107	<0.002	<0.01	0.22	20.8	2	2.5	49.3	0.61	<0.05	24.8	0.393
12455		260	21.6	132	<0.002	<0.01	0.07	5.9	2	1.6	55	0.5	<0.05	21.9	0.156
12456		230	15.1	89	<0.002	<0.01	0.08	5.3	1	1.8	58.7	0.55	<0.05	19.8	0.211
12457		340	13.7	89.3	<0.002	0.01	0.08	5.9	1	1.8	67.1	0.43	<0.05	12.2	0.147
12458		280	16.2	112.5	<0.002	<0.01	0.06	11.2	2	2	53.9	0.5	<0.05	19.2	0.227
12459		250	16.4	100.5	<0.002	<0.01	0.08	15.4	2	3.4	54.8	0.49	<0.05	13.4	0.297
12460		260	17.4	112	<0.002	<0.01	0.08	12.7	2	2.4	49.2	0.56	<0.05	22.4	0.286
12461		240	14.1	80.6	<0.002	<0.01	0.09	18.3	2	5	63.9	0.48	<0.05	12	0.366
12462		210	24.4	167.5	<0.002	<0.01	0.07	5.4	1	2.1	48.2	0.46	<0.05	21.3	0.122
12463		280	16.9	99.3	<0.002	<0.01	0.12	11.4	2	2.4	59.1	0.52	<0.05	14.4	0.402
12464		260	16	111.5	<0.002	<0.01	0.09	13	2	2.2	59.2	0.43	<0.05	14.7	0.279
12465		270	14.9	103.5	<0.002	<0.01	0.07	10.5	2	1.7	67	0.45	<0.05	14.4	0.279
12466		200	17.2	104	<0.002	<0.01	0.06	12.6	2	1.4	68.1	0.63	<0.05	8	0.364
12467		350	17.1	100.5	<0.002	<0.01	0.1	20.2	3	2.7	57.7	0.83	<0.05	24.7	0.634
12468		270	21.8	139.5	<0.002	<0.01	0.08	9.6	2	1.8	103.5	0.5	<0.05	15	0.282
12469		200	25.5	124.5	<0.002	<0.01	0.07	7.5	2	1.1	114	0.4	<0.05	14.5	0.18
12470		270	19.9	123	<0.002	<0.01	0.06	9.2	2	1.7	91	0.43	<0.05	14.4	0.203
12471		150	14.9	75.8	<0.002	<0.01	<0.05	8.9	1	1.5	97.9	0.28	<0.05	6.8	0.159
12472		180	19.5	107.5	<0.002	<0.01	0.05	6.2	1	1.3	120.5	0.32	<0.05	15.5	0.203
12473		330	18.7	78.5	0.002	<0.01	0.08	14.4	4	3	101	1.39	<0.05	77.7	1.195
12474		320	12.2	87.6	<0.002	<0.01	0.05	10.8	2	1.8	112	0.36	<0.05	12.2	0.232
12475		270	17.8	119	<0.002	<0.01	0.06	15.4	2	2.9	82.9	0.46	<0.05	27	0.359
12476		240	17.6	86.3	<0.002	<0.01	0.08	10.6	2	1.3	112	0.33	<0.05	14.6	0.292
12477		520	18.7	107	<0.002	<0.01	0.07	7.9	2	1.6	68.4	0.67	<0.05	11.9	0.219
12478		850	29.2	125	<0.002	<0.01	0.08	18	3	1.7	119.5	1.28	0.05	103	0.526
12479		240	16.8	88.4	<0.002	0.01	0.13	8.3	2	1.9	69.1	0.52	<0.05	18	0.338
12480		250	14.8	95.1	<0.002	<0.01	0.05	9.9	2	1.7	97	0.33	<0.05	13.9	0.218
12481		410	16.5	106.5	<0.002	0.01	0.13	14.7	2	2.5	97.8	0.51	<0.05	15.3	0.309
12482		90	14.7	78.5	<0.002	<0.01	0.07	3.4	1	0.7	74	0.14	<0.05	5.2	0.095
12483		220	16.3	104.5	<0.002	<0.01	0.12	8.7	1	1.7	85	0.29	<0.05	11.1	0.187
12484		440	25.6	69	0.002	0.02	0.1	17.9	3	2.3	68.6	1.48	0.06	135.5	1.255
12485		440	22.6	94.6	<0.002	0.01	0.25	22.8	3	5.9	68.9	1.21	<0.05	93.8	0.885
12486		170	21	99.2	<0.002	<0.01	0.07	12.1	2	1.1	74.1	0.34	<0.05	17	0.291



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Page: 4 - D

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

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CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03
12447		1.2	124	0.6	73	52	41.5	11.75	7.44	1.35	11.75	2.35	1.05	56	14.3	10.95
12448		1.3	87	0.7	53.2	44	40.5	8.52	5.17	1.1	10.45	1.65	0.74	52.8	13.75	10.15
12449		0.6	508	0.6	93.6	153	25	13.35	9.22	1.75	10.1	2.86	1.45	34.8	8.4	7.94
12450		0.9	177	1.4	47.8	61	33.9	7.88	4.72	1.29	9.02	1.53	0.67	45.6	11.8	8.77
12451		1.3	103	0.6	44.6	47	52.7	7.52	4.41	1.19	9.01	1.39	0.6	46.7	12.05	9.08
12452		1.1	89	0.9	54.8	42	39.2	8.97	5.39	1.21	10.05	1.76	0.77	50.9	13.3	9.91
12453		1.5	124	0.6	88.4	62	31.5	14	8.86	1.45	13.4	2.82	1.27	63	16.2	12.2
12454		1	80	0.5	54.5	40	39.4	8.26	5.38	1.15	7.89	1.68	0.77	38.2	9.84	7.39
12455		1.4	19	0.5	17.7	20	38.9	3.68	1.73	0.87	5.73	0.59	0.22	30.7	7.96	6.11
12456		1.7	24	0.7	11.9	13	39.7	3.05	1.12	0.91	5.69	0.42	0.13	29.8	7.88	5.9
12457		1.3	22	0.5	11.2	20	35.4	2.36	1.01	0.78	3.75	0.36	0.12	20	5.2	3.96
12458		1.4	44	0.4	21.7	25	30.6	4	2.04	0.97	5.69	0.69	0.27	29.8	7.62	5.79
12459		1.2	84	0.7	21.1	36	31.1	3.73	2.09	0.88	4.47	0.69	0.29	20.5	5.34	4.3
12460		1.4	57	0.5	28.2	27	33.3	4.88	2.75	1.01	6.29	0.9	0.37	30.8	8.13	6.3
12461		1.3	115	1.3	17.5	49	36.5	3.31	1.65	0.84	4.34	0.57	0.22	20.1	5.2	4.28
12462		2	16	1.1	15.8	20	43.3	3.3	1.51	0.7	5.2	0.52	0.2	28.5	7.32	5.3
12463		1.3	98	1.2	13.5	32	42.1	3.01	1.32	0.87	4.61	0.48	0.16	24.6	6.18	4.8
12464		1	64	0.5	22.1	31	35.6	4.1	2.27	1.08	5.11	0.77	0.32	25.5	6.44	5.1
12465		1.1	61	1.2	18.5	28	37.2	3.73	1.85	1.18	5.56	0.65	0.25	28.7	7.43	5.63
12466		0.5	58	0.8	17.8	35	31.4	3.21	1.8	0.95	3.79	0.61	0.25	19.6	5.08	3.74
12467		1.6	134	1.9	35.6	48	39.8	6.38	3.64	1.22	8.31	1.23	0.51	41.7	10.75	8.34
12468		1.3	56	3.1	17.9	30	38.1	3.59	1.77	1.41	5.98	0.61	0.22	36.3	9.56	6.67
12469		1.1	40	2	13.5	23	25.9	2.99	1.39	1.43	5.73	0.48	0.17	36.2	9.89	6.32
12470		1.3	46	2.3	17.5	28	32.4	3.42	1.7	1.09	4.98	0.59	0.22	27.4	7.37	5.11
12471		0.7	45	0.4	9	20	29.8	1.84	0.9	0.73	2.63	0.32	0.12	13.7	3.58	2.58
12472		1.6	41	1.2	14.5	15	33.7	3.54	1.54	1.75	7.56	0.52	0.18	56	15.25	8.59
12473		4	169	2.6	47.2	39	78.7	13.5	5.05	6.27	37.4	1.69	0.52	276	75.5	42.1
12474		0.8	51	0.4	17	27	36.1	3.54	1.64	1.2	5.56	0.59	0.2	30.6	7.78	5.64
12475		1.3	91	1.2	27	54	39.4	5.38	2.64	1.46	8.42	0.92	0.34	46.7	12.3	8.55
12476		0.8	68	0.6	18.6	30	33.9	3.58	1.87	1.19	5.41	0.64	0.25	30.7	7.95	5.61
12477		1.1	54	0.6	14.4	23	33.4	2.89	1.42	0.97	4.24	0.5	0.19	23.5	6.07	4.32
12478		4.1	92	1.4	41.7	44	53.8	9.76	4.29	2.32	22	1.45	0.51	151.5	40.1	24.3
12479		1.1	60	0.6	15.6	29	46.1	3.45	1.58	1.09	5.52	0.57	0.2	32	8.17	5.78
12480		0.9	48	0.5	18	24	35.8	3.51	1.79	1.14	4.99	0.62	0.23	27	7	5.16
12481		1.1	67	0.9	23.1	49	49.1	4.54	2.29	1.42	6.38	0.79	0.29	34	8.69	6.36
12482		0.5	20	0.3	7.1	9	23.8	1.34	0.72	0.62	1.82	0.25	0.1	10.1	2.63	1.86
12483		0.8	40	0.4	17.3	23	33.8	3.18	1.69	1.09	4.24	0.59	0.23	22.6	5.81	4.2
12484		5.6	141	0.7	40.6	53	65.8	10.25	4.32	1.74	25	1.44	0.51	174.5	46.4	27.4
12485		3.2	128	1	53.4	66	66.5	11.6	5.38	2.05	21.9	1.84	0.74	141.5	37.3	22.8
12486		0.7	54	0.3	26.2	27	22.2	4.47	2.62	0.98	4.95	0.87	0.36	25.6	6.72	4.48



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Page: 4 - E

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

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Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r
		Tb	Tm	Yb
		ppm	ppm	ppm
		0.01	0.01	0.03
12447		1.81	1.07	7.05
12448		1.44	0.76	4.97
12449		1.89	1.39	9.47
12450		1.29	0.68	4.45
12451		1.26	0.62	4.02
12452		1.48	0.78	5.07
12453		2.17	1.31	8.69
12454		1.27	0.79	5.19
12455		0.74	0.22	1.46
12456		0.69	0.14	0.85
12457		0.47	0.13	0.78
12458		0.76	0.28	1.78
12459		0.64	0.29	1.93
12460		0.88	0.39	2.56
12461		0.6	0.22	1.47
12462		0.66	0.2	1.29
12463		0.59	0.17	1.07
12464		0.74	0.32	2.05
12465		0.72	0.24	1.61
12466		0.55	0.25	1.59
12467		1.17	0.5	3.36
12468		0.72	0.23	1.45
12469		0.62	0.17	1.09
12470		0.65	0.22	1.44
12471		0.36	0.12	0.76
12472		0.77	0.18	1.14
12473		3.37	0.52	3.38
12474		0.72	0.21	1.29
12475		1.05	0.34	2.2
12476		0.68	0.25	1.61
12477		0.55	0.2	1.23
12478		2.25	0.51	3.35
12479		0.69	0.2	1.32
12480		0.68	0.24	1.52
12481		0.86	0.3	1.91
12482		0.25	0.1	0.64
12483		0.59	0.22	1.45
12484		2.41	0.49	3.25
12485		2.46	0.67	4.54
12486		0.74	0.36	2.35



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Page: 5 - A

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r Cs ppm
		0.02	0.01	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
12487		3.26		0.001	0.06	5.2	1.1	360	0.94	0.07	1.45	0.11	473	23.6	86	0.68
12543		1.90		0.001	<0.01	3.92	0.6	410	0.89	0.09	0.89	0.06	396	12.3	47	0.41
12544		1.97		0.001	<0.01	4.53	0.8	500	1.04	0.04	1.18	0.06	463	11.4	39	0.49
12545		2.14		0.001	<0.01	4.68	0.2	330	0.97	0.05	1.5	0.05	223	10.6	30	0.16
12546		2.45		0.001	0.12	4.11	1	350	0.91	0.12	1.31	0.04	490	19.2	72	0.44
12547		2.49		0.001	<0.01	4.96	0.6	280	1.18	0.05	1.67	0.05	456	18.8	70	0.53
12548		2.21		<0.001	<0.01	3.64	0.2	540	1.15	0.03	0.95	0.05	121	8.5	31	0.36
12549		2.07		<0.001	<0.01	4.67	0.5	390	1.05	0.05	1.35	0.05	445	13.3	45	0.26
12550		3.50		<0.001	<0.01	4.9	0.5	680	1.48	0.07	1.56	0.07	58.5	14.2	30	0.49
12551		3.41	98.8	0.001	<0.01	4.52	0.7	490	1.27	0.08	1.7	0.07	85.4	15.8	42	0.72
12552		3.24		<0.001	0.05	5.88	0.2	310	0.82	0.11	4.23	0.16	48.3	35.1	117	1.1
12553		3.28		0.001	0.06	4.98	0.3	350	1.33	0.14	2.82	0.15	49	21	28	1.3
12554		2.97		<0.001	0.03	4.71	0.2	460	1.17	0.13	1.73	0.09	57.7	14.5	35	1.3
12555		3.46		<0.001	0.05	4.69	0.6	520	1.17	0.13	1.74	0.09	100	14.7	51	0.9
12556		2.77		<0.001	0.12	7.57	2	640	2.05	0.26	2.09	0.06	83.5	20.6	146	2.94
12557		2.98		0.001	0.06	7.6	2	550	1.32	0.21	6.55	0.16	51.4	39.5	135	2.02
12558		3.46		0.001	0.06	7.27	0.2	360	1.02	0.22	6.09	0.16	57.6	37.3	146	1.73
12559		3.51		<0.001	0.06	6.23	0.5	420	1.07	0.13	4.14	0.1	92.9	32.8	140	1.07
12560		5.64		0.001	0.14	3.73	1.5	480	0.98	0.13	0.71	0.03	>500	49.2	435	1.25
12561		3.47		0.001	0.06	5.28	0.6	1610	0.69	0.12	0.83	0.03	454	17.8	113	1.31
12562		3.22		<0.001	0.04	5.2	0.6	600	1.06	0.24	1.42	0.04	69	11.6	59	2.69
12563		3.75		0.001	0.08	4.46	0.7	560	0.96	0.17	1.04	0.05	187	16	116	1.44
12564		3.11		0.001	0.16	4.52	0.4	320	1.21	0.09	1.8	0.08	191	19.9	101	0.54
12565		4.17		<0.001	0.06	4.3	0.8	460	0.97	0.08	1.39	0.07	132.5	19.6	108	1.01
12566		3.09		0.001	0.04	5.88	1.3	780	1.18	0.13	0.95	0.05	78.2	11.6	51	2.88
12567		4.40		0.001	0.09	4.1	0.8	540	0.85	0.14	1.2	0.07	239	15.1	157	1.48
12568		3.01		<0.001	0.05	4.47	0.3	530	0.68	0.11	0.76	0.05	57.7	8.8	44	0.85
12569		2.21		0.001	0.06	7.46	1.2	400	1.96	0.23	4.18	0.06	125	17	120	3.07
12570		2.31		0.001	0.06	6.76	0.9	340	1.45	0.24	3.65	0.07	160	16	154	2.96
12571		1.04		0.001	0.08	7.71	1.7	400	2.04	0.16	6.81	0.09	90.2	14.2	59	5.7
12572		1.69		0.001	0.05	6.56	0.4	530	0.66	0.23	4.97	0.07	90.8	7.4	58	4.23
12573		2.46		0.001	0.05	5.93	0.6	560	0.83	0.21	2.68	0.07	84.7	9.9	64	5.62
12574		1.69		<0.001	0.05	5.09	2.3	550	1.77	0.31	1.12	0.1	90.5	10.4	41	6.59
12575		0.68		0.001	0.09	7.82	0.9	340	2.22	0.24	5.42	0.11	88.2	14.7	60	8.69
12576		0.86		0.001	0.08	5.91	0.5	410	1.75	0.2	4.75	0.08	69.2	10.6	41	7.8
12577		1.83		<0.001	0.07	5.15	1	360	1.78	0.16	1.21	0.08	78.7	8.2	42	8.17
12578		2.35		<0.001	0.07	5.38	1.1	440	1.23	0.31	5.26	0.06	76.2	9.7	35	10.9
12579		1.65		0.001	0.09	5.65	1.6	430	1.47	0.27	5.61	0.07	69.1	9.5	36	9.1
12580		2.06		<0.001	0.07	6.6	1.7	380	1.6	0.37	3.27	0.08	99.8	13.3	64	9.42
12581		1.04		<0.001	0.06	5.62	0.3	340	1.69	0.19	5.84	0.07	72.1	13.9	67	6.23



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Page: 5 - B

Total # Pages: 6 (A - E)

Plus Appendix Pages

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Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
12487		11.8	10.25	20.5	0.42	6.5	0.121	1.42	215	3.7	0.88	1395	0.66	0.89	18.1	18.2
12543		8.7	6.21	17.5	0.38	5.6	0.148	0.87	191	3	0.65	600	1.03	0.92	21.7	10.3
12544		7.6	5.2	17.8	0.38	6.3	0.082	0.78	229	4	0.41	367	0.55	1.25	26.3	9.9
12545		7.6	4.25	15.6	0.21	4	0.085	0.55	112	2.4	0.69	391	1.04	1.48	13.8	10.8
12546		7	9.35	19.55	0.45	11.6	0.16	0.72	259	3.2	0.62	664	0.92	1.05	62.2	13.9
12547		10.8	7.37	19.75	0.38	5.3	0.123	0.6	210	3.6	0.8	589	1.01	1.29	31.9	17.1
12548		5.6	3.61	12.85	0.14	5	0.06	1.12	60.2	2.8	0.34	258	0.44	0.91	19.7	9.2
12549		8.9	6.31	17.25	0.41	5.6	0.121	0.69	208	2.7	0.71	509	1.06	1.27	25	11.3
12550		10.2	3.43	14.3	0.1	2.6	0.071	1.97	26.6	3.1	0.95	495	0.42	1.18	7.4	13.1
12551		10.3	4.53	13.55	0.13	4.8	0.084	1.56	42.8	3.4	1.05	675	1.33	0.95	11.3	16.6
12552		23.4	7.25	14.55	0.15	2.8	0.082	1.47	20.3	8.9	3.8	1375	0.3	0.84	4.8	66.6
12553		12.7	6.17	13.4	0.1	2.9	0.078	1.36	17.2	6.1	1.59	1120	0.4	0.84	6.1	15.2
12554		12	3.87	12.65	0.1	2.6	0.056	1.57	24.5	5.9	1.16	629	0.76	0.97	5.3	18.9
12555		9.6	4.71	13.65	0.14	2.8	0.074	1.64	44	4.2	1.13	666	0.37	0.94	7.5	19.5
12556		17.7	9.59	23.9	0.14	1	0.096	2.48	32.7	11.5	0.89	1865	0.9	0.19	6.6	37.7
12557		74.4	9.14	19.6	0.14	1.2	0.117	1.29	17.8	12.2	2.77	2790	0.39	0.72	4.9	54
12558		36.5	9.78	18.9	0.14	1.3	0.097	0.98	21.7	12	2.76	3380	0.88	0.84	5.2	47
12559		31	9.48	21.1	0.15	1.6	0.107	1.29	36.3	8.1	2.09	1745	0.33	0.71	7.4	43.8
12560		9	25.6	60.3	0.91	0.6	0.17	1.22	435	4.4	0.71	1270	0.51	0.17	11.1	106
12561		11.2	8.72	22.5	0.34	0.8	0.098	2.57	197	4.7	0.86	855	0.36	0.34	8.7	31.5
12562		11.4	4.34	15.45	0.24	1.1	0.062	2.87	36.3	12.1	0.73	923	0.72	0.35	6.1	42.8
12563		11.6	9.22	18.85	0.21	2.1	0.099	2.01	78.5	7.9	0.7	1075	0.38	0.36	10	28.9
12564		17.9	10.05	15.7	0.22	9.8	0.107	1.21	77.6	5.4	1.12	1455	1.06	1	38	21.2
12565		29.4	7.47	13.1	0.16	2.5	0.086	1.64	53.1	6.8	1.36	1015	0.52	0.47	10.9	23.8
12566		14.7	3.81	13	0.1	1.3	0.051	2.93	32.3	13.3	0.6	823	0.66	0.25	6.4	19.8
12567		11.3	11.85	21.5	0.25	2.4	0.102	1.73	97.9	7.7	0.44	1600	0.36	0.26	18.2	30
12568		16.2	3.47	9.77	0.08	1.1	0.046	2.45	23.2	6.6	0.82	426	0.9	0.39	5.1	15.7
12569		14.4	10.65	22.8	0.16	0.9	0.078	1.89	43.4	14.1	0.8	1200	0.78	0.13	9.6	29.6
12570		12.3	11.5	23.2	0.16	1.1	0.084	1.61	57.2	13.6	0.77	943	0.67	0.11	10.5	29.6
12571		29.1	4.48	18.6	0.12	1.5	0.067	2.11	39.5	27.7	1.34	562	0.43	0.21	8.6	26
12572		6.5	4.76	15.7	0.11	1.4	0.068	2.85	37.4	7.9	0.48	645	0.96	0.19	11.5	11.3
12573		7	4.91	15.3	0.13	1.1	0.058	3.4	34.5	14.5	0.47	629	0.92	0.23	7.8	18.6
12574		14.2	3.99	14.5	0.12	1.3	0.063	2.8	33.9	21.8	0.6	894	0.76	0.17	6.6	19.6
12575		35	4.84	18.45	0.11	1.9	0.069	2.37	38.9	42.7	1.4	782	0.6	0.27	9.7	26.3
12576		21.1	3.57	13.5	0.11	1.4	0.053	2.88	30	28	0.99	767	1.08	0.29	8.4	18.2
12577		15.4	3.22	13.65	0.12	1.5	0.051	2.99	31.9	23.5	0.48	612	0.62	0.2	8.4	15.4
12578		11.7	3.12	12.85	0.11	1.8	0.048	3.25	30.4	23.4	1.5	597	0.89	0.25	11.2	15.2
12579		15.5	3.32	13.25	0.11	1.6	0.05	2.92	26.5	21.9	1.11	961	0.74	0.18	11.7	15
12580		11.3	5.87	16.7	0.14	1.6	0.062	2.93	40	26.4	0.95	1945	1	0.13	11.3	18.2
12581		12.1	6.6	15.2	0.12	1.1	0.068	2.31	31.1	24	1.44	2340	0.58	0.14	8.5	18.7



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Page: 5 - C

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
12487		450	23	60.3	0.003	<0.01	0.07	28.1	3	4.6	62.2	1.72	<0.05	122	1.345
12543		340	12	32.4	0.003	<0.01	0.05	18.7	3	4.9	43	1.78	<0.05	89.2	0.879
12544		380	12.3	28.6	0.002	<0.01	0.06	15.4	2	3.8	89	1.67	<0.05	97.1	1.01
12545		260	8.1	17.3	0.003	<0.01	<0.05	15.1	2	3	91.1	1.03	<0.05	46.2	0.529
12546		420	13	22.8	0.003	<0.01	0.07	28.6	3	7.9	64.2	4.61	<0.05	117	2.44
12547		370	10.6	23	0.003	<0.01	0.07	26	3	5.5	72.2	2.22	<0.05	91.8	1.37
12548		170	5.7	42.3	0.002	<0.01	<0.05	13.3	1	2.6	51.5	1.4	<0.05	28.3	0.644
12549		510	11.6	24.5	0.003	<0.01	0.74	19.2	3	5	65.6	1.84	<0.05	96.8	0.918
12550		180	10	72.3	0.002	<0.01	0.07	16.5	1	2.8	82.6	0.67	<0.05	10.7	0.25
12551		180	10.7	61.1	0.003	<0.01	0.09	20.1	1	3.3	69.6	1.08	<0.05	21.2	0.438
12552		210	15.8	54.6	0.002	<0.01	0.27	39.9	1	2.1	44.7	0.54	<0.05	6.3	0.498
12553		160	12.5	51.3	0.002	<0.01	0.11	34.7	1	3	61.3	0.63	<0.05	6.6	0.392
12554		170	13	63.4	0.002	<0.01	0.16	18.5	1	2.3	63.7	0.46	<0.05	9.8	0.276
12555		170	12.9	62.7	0.002	<0.01	0.1	19.3	1	3.2	69.2	0.63	<0.05	19.8	0.379
12556		170	15	128	0.002	<0.01	0.35	23.6	1	5.3	87.4	0.53	<0.05	13.8	0.427
12557		230	10.3	71.3	0.002	<0.01	0.33	49	2	2.2	96.5	0.38	0.07	5.3	0.567
12558		250	9	49.1	0.003	<0.01	0.32	50.6	2	2.4	118.5	0.46	<0.05	6.7	0.652
12559		270	9	48.9	0.002	<0.01	0.16	40.9	2	3.8	92.3	0.54	<0.05	11	0.772
12560		560	22	54.4	0.003	<0.01	0.23	30.4	2	14.3	40.3	0.75	<0.05	172	0.969
12561		330	18.8	96	0.003	<0.01	0.23	20.7	1	6.8	138	0.6	<0.05	72	0.571
12562		170	20.1	148	0.003	0.01	0.21	11.9	1	3.8	70.8	0.52	<0.05	13.1	0.293
12563		200	15.9	87.4	0.002	<0.01	0.26	20.3	1	6.4	58.3	0.86	<0.05	31.8	0.639
12564		330	9.6	39.7	0.003	<0.01	0.06	25	2	5.1	44.4	3.67	<0.05	36.7	2.15
12565		250	14.3	55.3	0.002	<0.01	0.08	23	2	3	42.5	0.89	<0.05	27.5	0.996
12566		210	24.1	125.5	0.002	<0.01	0.41	11.7	1	3	59.4	0.48	<0.05	13.3	0.287
12567		250	19.3	79.5	0.002	<0.01	0.24	19.4	1	8	47.3	1.45	<0.05	40.2	0.842
12568		180	13.6	84.1	0.002	<0.01	0.07	11	1	2.5	48.7	0.34	<0.05	10.7	0.251
12569		170	17.1	90.8	0.002	<0.01	0.54	19.1	1	4.9	123.5	0.76	<0.05	12.7	0.46
12570		140	15.6	86.8	0.002	<0.01	0.45	19.3	1	4.3	142.5	0.87	<0.05	19.7	0.502
12571		440	17.3	123	0.002	0.02	0.47	15.5	1	3.1	117.5	0.72	<0.05	13.9	0.341
12572		140	18.2	116	0.003	<0.01	0.97	13.6	1	4.1	165	0.95	<0.05	12.6	0.438
12573		190	24.3	159	0.002	<0.01	2.13	15.3	1	3.6	113	0.65	<0.05	12.3	0.298
12574		160	28	167	0.002	<0.01	1.59	13.9	1	3.7	59.4	0.57	<0.05	13.1	0.197
12575		710	20.7	144	0.002	0.02	0.74	19.2	1	3.2	86.3	0.84	<0.05	13.7	0.333
12576		470	24.2	162.5	0.003	0.01	0.51	14.1	1	2.6	81.3	0.7	<0.05	11	0.247
12577		330	29.5	195	<0.002	<0.01	0.87	16.5	1	3.4	39.2	0.79	<0.05	14.3	0.19
12578		280	20.5	184.5	0.003	0.01	0.54	13	1	3.4	76.1	1.07	<0.05	14.6	0.323
12579		240	29.3	173	0.002	<0.01	0.58	13.7	1	3.9	75.6	1.02	<0.05	11.7	0.319
12580		220	22.5	166.5	0.003	<0.01	1.22	24	1	4	67.2	1.05	<0.05	18	0.329
12581		250	19.3	124	0.002	<0.01	0.85	28.5	1	3.3	60.4	0.75	<0.05	11.1	0.255



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Page: 5 - D

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03
12487		6.2	308	2.1	102	80	171	23.7	11.75	2.99	39	4.27	1.58	198.5	55.5
12543		3.9	145	0.9	96	42	162	23	11.4	2.75	34.3	4.21	1.51	187.5	50.8
12544		3.2	121	0.9	54	29	195.5	15.15	5.67	2.83	31	2.36	0.57	204	55.8
12545		2.2	87	0.7	52	29	107	13.05	6.32	2.59	19.65	2.34	0.8	108.5	29.4
12546		4.3	257	1.8	88.2	46	319	23	9.99	2.93	42.6	3.93	1.19	237	66.2
12547		3.5	217	0.7	91.2	42	161.5	21.7	9.64	2.96	36.2	3.78	1.11	200	54.3
12548		1.5	79	0.5	30.1	18	146.5	6.65	3.17	1.49	10.25	1.2	0.43	58.9	16.55
12549		5.1	150	0.9	101.5	37	161	25.3	10.7	3.39	42.5	4.24	1.19	216	57.2
12550		1.3	71	0.7	38.7	34	78	6.67	4.44	1.4	6.19	1.51	0.66	27.5	7.57
12551		2.1	94	0.9	57.1	41	131	10.6	7.18	1.54	9.82	2.36	1.1	44	12.05
12552		0.8	186	1.4	34.2	104	79.8	6.29	4.08	1.32	5.7	1.37	0.64	22.7	6.11
12553		1	162	0.8	36.4	69	84.9	6.27	4.15	1.24	5.5	1.4	0.66	22	5.86
12554		1.2	84	0.8	23.2	48	80.7	4.19	2.43	1.07	4.94	0.84	0.34	24.8	7.02
12555		1.5	99	0.8	38.1	53	88.5	7.1	4.24	1.44	8.32	1.44	0.63	45.5	12.9
12556		0.8	172	1	26.1	67	26.9	4.97	3.24	1.22	5.6	1.03	0.49	31.1	8.89
12557		0.6	229	0.8	46	112	27.5	7.62	5.46	1.47	5.6	1.76	0.83	20.1	5.29
12558		0.6	239	0.7	47.9	92	29.2	7.92	5.68	1.5	6.13	1.84	0.85	22.9	6.14
12559		0.6	252	0.8	42.8	87	40	7.73	5.18	1.63	7.58	1.7	0.84	36.8	10.2
12560		1	493	3.1	42.5	278	16.6	14.5	4.78	4.66	48.6	1.78	0.4	370	107.5
12561		0.7	150	0.7	36.4	99	24.2	8.74	3.99	3.17	20.6	1.39	0.47	176.5	48.7
12562		0.8	64	1.1	16.1	50	31.1	3.12	1.57	0.98	4.74	0.53	0.2	26.7	7.1
12563		1.2	147	1.4	29.7	84	62.4	6.6	3.21	1.71	11.3	1.15	0.41	79.1	22.8
12564		3.5	293	3.7	63.6	71	291	14.65	7.47	2.1	18.3	2.65	1.14	89.3	24.6
12565		1.8	238	1.9	39.1	73	73.4	9.05	4.55	1.63	12.2	1.63	0.64	60.2	16.7
12566		0.9	62	1.1	17	55	39.3	3.84	1.76	1.36	5.77	0.67	0.22	34.5	9.67
12567		2.3	162	1.1	40.8	112	76.8	9.78	4.34	2.01	16.15	1.65	0.54	94.1	26.9
12568		0.6	57	0.6	12.3	42	36.5	2.73	1.27	0.98	4.09	0.48	0.16	23.4	6.65
12569		1.6	169	1.2	27.2	62	26	4.98	2.91	1.42	6.6	0.99	0.39	39.3	11.55
12570		1.8	189	1.4	28.9	63	32.7	5.95	3.08	1.56	8.69	1.1	0.39	53.9	15.95
12571		1.2	80	1.1	22.9	85	45.5	4.65	2.36	1.54	6.41	0.86	0.29	40	11.55
12572		2	89	1.5	28.3	38	42.6	5.18	2.92	1.58	6.56	1.02	0.38	37.9	11
12573		1.5	82	1.1	24.2	60	36.2	4.34	2.33	1.4	5.53	0.84	0.31	32.9	9.63
12574		1.6	56	1.3	16.9	55	40.6	3.79	1.73	1.33	5.58	0.65	0.21	33.1	9.68
12575		1.6	77	2.1	26.7	99	56.9	5.26	2.77	1.52	6.67	0.99	0.36	39.6	11.35
12576		1.5	53	1.2	23	64	45.2	4.23	2.34	1.26	5.18	0.82	0.32	29.9	8.56
12577		2.3	49	1.4	25.4	50	45.3	4.83	2.6	1.08	5.85	0.91	0.36	32.4	9.42
12578		2.7	51	2	27.8	60	50.5	5.42	2.88	1.37	6.66	1.03	0.36	35.4	9.85
12579		2.4	57	1.9	29	56	47	5.14	2.91	1.26	5.6	1.01	0.38	30.1	8.35
12580		2.5	81	1.9	40.4	63	44	7.4	4.38	1.45	7.84	1.51	0.61	41.4	11.9
12581		1.4	78	1.2	40.6	77	32.5	6.33	4.17	1.2	5.78	1.39	0.6	30.8	8.84



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Page: 5 - E

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r
		Tb	Tm	Yb
		ppm	ppm	ppm
		0.01	0.01	0.03
12487		5.04	1.6	10.5
12543		4.68	1.54	9.93
12544		3.53	0.59	3.74
12545		2.7	0.82	5.29
12546		5.15	1.24	7.71
12547		4.61	1.17	7.48
12548		1.36	0.41	2.63
12549		5.66	1.28	7.97
12550		1.1	0.65	4.22
12551		1.73	1.06	7.05
12552		1	0.62	4.03
12553		0.98	0.64	4.1
12554		0.76	0.35	2.21
12555		1.24	0.62	3.97
12556		0.83	0.48	3.11
12557		1.11	0.83	5.28
12558		1.16	0.85	5.48
12559		1.27	0.79	5.19
12560		3.88	0.44	2.62
12561		2.01	0.49	3
12562		0.61	0.2	1.31
12563		1.36	0.43	2.64
12564		2.74	1.09	7.11
12565		1.77	0.62	4.07
12566		0.79	0.23	1.39
12567		2.05	0.57	3.52
12568		0.55	0.17	1.05
12569		0.91	0.42	2.57
12570		1.13	0.41	2.59
12571		0.88	0.31	1.89
12572		0.94	0.41	2.53
12573		0.8	0.33	2.03
12574		0.75	0.22	1.36
12575		0.98	0.38	2.39
12576		0.76	0.34	2.12
12577		0.88	0.38	2.33
12578		1	0.4	2.37
12579		0.9	0.4	2.48
12580		1.26	0.64	4.03
12581		1.02	0.61	3.92



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Page: 6 - A

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-TL44 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r Cs ppm
		0.02	0.01	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
12582		2.10		0.001	0.07	6.71	1.3	390	1.9	0.42	4.04	0.09	91.7	11	54	9.9
12583		3.08		0.007	0.04	4.69	0.6	490	0.96	0.06	1.48	0.06	56.9	15.2	48	1.19
12584		2.26		0.001	0.03	4.51	1	460	1.11	0.1	1.53	0.06	67.1	17.7	56	1.15
12585		3.61		<0.001	0.04	5.45	0.4	600	1.45	0.08	0.96	0.06	82.1	11.7	48	1.61
12586		2.45		<0.001	<0.01	4.26	0.8	430	1.41	0.04	0.37	0.04	83.2	7.8	30	0.96
12587		1.32		0.001	0.08	6.72	1.7	430	1.93	0.12	0.95	0.19	87.6	15.5	50	4.06
12588		1.95		<0.001	0.04	5.11	0.2	580	0.72	0.03	0.62	0.16	76.7	2.6	9	1.16
12589		2.42		<0.001	0.03	5.18	<0.2	440	1.1	0.03	0.61	0.14	117	3.3	11	1.39
12590		2.15		<0.001	0.02	4.39	<0.2	480	0.7	0.03	0.47	0.15	77	3.6	10	1.7
12591		2.18	93.8	0.001	0.04	4.72	0.3	280	0.92	0.68	1.01	0.15	78.8	12.5	28	1.48
12592		2.40		<0.001	0.03	5.32	1	440	2.09	0.16	0.52	0.14	154.5	9.8	29	3.04
12593		2.04		<0.001	0.06	5.44	2.4	540	1.84	0.19	1.06	0.2	90.2	15.5	63	3.63
12594		2.17		<0.001	0.03	4.02	0.9	510	0.95	0.09	0.26	0.15	73.3	5.9	25	1.87
12595		2.89		<0.001	0.02	4.98	0.3	420	1.18	0.13	0.52	0.13	68.7	6.2	19	1.67
12596		2.45		<0.001	0.06	4.72	1.1	410	1.01	0.22	0.61	0.14	218	7.9	40	1.6
12597		2.55		<0.001	0.02	3.67	1.1	470	0.85	0.11	0.42	0.04	54.4	5	20	1.03
12598		2.48		<0.001	0.04	5.07	<0.2	540	1.12	0.1	1.09	0.14	79	8.5	30	0.89
12599		0.73		0.001	0.05	6.41	5.2	410	1.92	0.14	0.84	0.17	99.6	12.9	53	3.04
12600		1.67		<0.001	0.02	4.45	<0.2	430	1.24	0.06	0.86	0.14	47.5	5.7	15	0.74



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Page: 6 - B

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
12582		10.5	4.18	16.9	0.12	2.1	0.056	3.34	37.8	19.2	1.37	1085	1.15	0.12	10	15.5
12583		29.9	4.35	14.7	0.11	3.9	0.099	2.54	21.2	8.1	1.05	435	0.49	0.63	8	33.2
12584		21.5	5.36	14.1	0.12	2.8	0.112	2.19	27.3	8.3	1.09	577	0.78	0.68	8.8	27.7
12585		12.4	4.05	15	0.12	1.9	0.066	2.9	34.7	12.1	0.84	419	0.43	0.78	7.9	20.6
12586		11.5	3.61	11.05	0.11	1.3	0.063	1.93	34.4	7.2	0.64	302	0.9	0.44	5.6	13
12587		28.3	4.13	19.75	0.15	1.9	0.091	1.96	42.3	20	0.97	634	0.62	0.48	9.7	27.2
12588		1.7	1.97	11.25	0.12	0.9	0.033	3.06	34.8	5.6	0.3	257	0.76	0.91	7.4	5.6
12589		2.3	1.84	11.85	0.15	1.2	0.035	2.21	52.2	6.2	0.3	254	0.39	1.32	6.9	6.9
12590		3.7	1.9	10.55	0.13	0.8	0.032	2.39	33.6	6.7	0.27	286	1.08	0.88	6.6	7.1
12591		8.5	4.37	12.1	0.13	1.3	0.066	1.96	34.2	5.8	0.66	540	0.47	1	7.1	13.8
12592		11	3.74	15.95	0.18	1.9	0.057	3.04	67.7	14.7	0.55	527	0.82	0.5	12.4	14.8
12593		18.2	5.39	15.35	0.15	1.2	0.067	2.08	35.8	14.6	0.93	834	0.97	0.62	15.3	27.4
12594		8	2.21	10.05	0.1	1	0.034	1.95	30.2	8.8	0.31	284	0.45	0.27	5.6	13.2
12595		6.2	1.91	11.45	0.1	1.3	0.032	2.25	30.4	7.8	0.28	332	0.8	1.05	5.8	11.1
12596		8.5	3.72	12.1	0.24	1.6	0.051	1.73	105	9.7	0.41	630	0.39	0.65	24.8	14.3
12597		7.7	1.54	8.52	0.17	1.1	0.022	1.87	30.4	5	0.19	219	0.88	0.63	4.6	14.2
12598		8.2	3.18	12.05	0.12	1	0.044	1.97	37	5	0.57	473	0.55	1.17	5.9	14.3
12599		19.5	3.9	17	0.14	1.8	0.061	1.76	45.7	18.3	0.96	594	0.96	0.63	10.2	27.1
12600		3.5	1.79	9.82	0.1	1	0.027	1.81	21.7	4.3	0.45	256	0.75	1.12	3.2	9.8



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Page: 6 - C

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
12582		200	17.3	145.5	0.002	<0.01	5.31	15.7	1	3.3	50.9	1.04	<0.05	16	0.359	0.52
12583		130	5.9	117	0.002	<0.01	0.08	17	1	2.4	34.3	0.53	<0.05	9.8	0.23	0.32
12584		190	8	97.3	0.002	<0.01	0.13	22.5	1	2.4	44.6	0.6	<0.05	11.8	0.375	0.35
12585		260	13	121.5	0.002	<0.01	0.1	17.8	1	2.9	66	0.57	<0.05	15	0.292	0.47
12586		190	7.2	74.2	0.002	<0.01	0.08	12.2	1	2.6	34	0.39	<0.05	17.2	0.218	0.26
12587		500	18.4	119	0.002	0.02	0.4	17.9	1	4.1	77.3	0.77	<0.05	14.9	0.348	0.55
12588		280	23.8	136.5	0.002	<0.01	0.06	7.6	1	1.6	63	0.63	<0.05	19.2	0.198	0.59
12589		260	19.4	112.5	0.002	<0.01	0.05	8.2	1	1.5	62	0.54	<0.05	25.8	0.198	0.47
12590		240	20.7	124.5	0.002	<0.01	0.07	7.9	1	1.5	54.7	0.54	<0.05	17.2	0.169	0.51
12591		210	18	99.1	0.002	<0.01	0.1	14.1	1	5.9	57.9	0.75	<0.05	20.5	0.524	0.4
12592		270	28.6	189	0.002	<0.01	0.15	13	1	4.6	48.2	1.17	<0.05	38.2	0.412	0.77
12593		410	23.4	115.5	0.003	<0.01	0.22	16.5	1	2	113	1.25	<0.05	14.5	0.601	0.52
12594		140	20.7	93.9	0.002	<0.01	0.12	7.5	1	1.3	57.4	0.43	<0.05	15.2	0.21	0.39
12595		170	22	115	0.002	<0.01	0.1	7.4	1	1.8	64.6	0.51	<0.05	13.5	0.193	0.48
12596		300	20.7	84.5	0.002	<0.01	0.12	13.3	1	2.6	72	2.25	<0.05	53.8	0.586	0.34
12597		190	17.8	93.6	0.003	<0.01	0.08	5.5	1	1.2	62.8	0.36	<0.05	12.8	0.172	0.37
12598		260	15.2	82.5	0.002	<0.01	0.07	11.7	1	2	97.8	0.41	<0.05	13.7	0.269	0.32
12599		320	18.3	106	0.002	0.01	0.17	15.7	1	2.6	94.8	0.82	<0.05	20.1	0.399	0.47
12600		150	15.1	75	0.002	<0.01	<0.05	7.5	1	1.4	71.6	0.24	<0.05	7.9	0.158	0.28
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Page: 6 - D

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		U	V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm
		ppm 0.1	ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01	ppm 0.01	ppm 0.1	ppm 0.03	ppm 0.03
12582		3	75	1.6	32.4	103	54.8	5.92	3.25	1.51	6.88	1.13	0.43	38.8	10.95	7.33
12583		0.9	78	0.7	34.7	33	102	6.54	4.11	2.14	6.43	1.4	0.63	26.8	7.09	6.16
12584		0.8	111	0.7	36.4	48	78.5	7	4.12	1.97	7.43	1.43	0.6	33.7	8.92	7.48
12585		1	75	0.7	28.2	45	55.1	5.63	3.04	1.79	7.2	1.08	0.42	37.8	10.45	7.67
12586		1.2	52	0.4	21.6	23	40.4	4.48	2.3	1.34	6.38	0.83	0.33	35.8	9.96	6.76
12587		1.5	78	1.5	29.2	69	64.6	5.6	3.05	1.72	7.53	1.09	0.4	40.6	11.3	7.43
12588		1.3	24	0.3	23.8	19	27.5	4.76	2.53	1.29	6.68	0.91	0.32	35.8	10.15	7.21
12589		1.7	26	0.4	23.3	20	37	5.01	2.39	1.31	8.71	0.87	0.29	50.8	14.55	9.65
12590		1.2	23	0.5	19.1	20	28.4	3.58	1.93	0.92	5.53	0.68	0.27	31.7	9	6.1
12591		1.6	142	1.1	21.4	34	37.4	4.38	2.22	0.9	6.44	0.81	0.29	33.7	9.56	6.76
12592		2.7	78	1.6	27.7	42	57.6	5.89	3.14	1.15	9.49	1.08	0.43	60	17.65	10.15
12593		1.4	107	2.1	25.2	66	38.9	5.06	2.7	1.7	6.93	0.95	0.39	36.8	10.4	7.15
12594		0.9	45	0.7	10.7	26	33.8	2.31	1.19	0.81	4.1	0.42	0.17	26.4	7.75	4.48
12595		1.2	39	0.8	15.4	21	38.3	3.31	1.63	1.08	5.03	0.6	0.22	28.8	8.15	5.46
12596		2.5	105	1	31.7	32	53.3	7.3	3.45	1.85	14.15	1.26	0.45	93.4	25.8	16.05
12597		0.9	29	0.5	11.5	14	34.2	2.36	1.14	0.83	3.86	0.39	0.14	22.1	5.96	4.01
12598		0.9	64	0.7	20.7	29	36.7	4.19	2.33	1.35	5.92	0.82	0.31	35.5	9.93	6.54
12599		1.4	85	1.3	22.9	55	61.9	4.74	2.51	1.54	7.01	0.91	0.34	41.7	12.05	7.71
12600		0.7	42	0.4	10.8	15	34.3	2.3	1.12	0.96	3.56	0.41	0.14	21.1	5.78	3.83



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Page: 6 - E

Total # Pages: 6 (A - E)

Plus Appendix Pages

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Sample Description	Method Analyte Units LOR	ME-MS61r	ME-MS61r	ME-MS61r
		Tb	Tm	Yb
		ppm	ppm	ppm
		0.01	0.01	0.03
12582		1.04	0.45	2.86
12583		1.1	0.62	4
12584		1.21	0.61	3.81
12585		1.05	0.43	2.68
12586		0.87	0.33	2.08
12587		1.05	0.42	2.65
12588		0.93	0.34	2.14
12589		1.09	0.32	1.98
12590		0.73	0.28	1.76
12591		0.88	0.3	1.94
12592		1.19	0.44	2.83
12593		0.97	0.38	2.54
12594		0.47	0.17	1.1
12595		0.67	0.23	1.44
12596		1.62	0.46	2.97
12597		0.47	0.14	0.95
12598		0.8	0.32	2.09
12599		0.93	0.34	2.18
12600		0.47	0.15	0.91



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Page: Appendix 1

Total # Appendix Pages: 1

Finalized Date: 5-DEC-2008

Account: NUPRES

Project: STRANG WAYS

CERTIFICATE OF ANALYSIS AS08152923

Method	CERTIFICATE COMMENTS
ME-MS61r ME-MS61r	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.