



**BUREAU
VERITAS**

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Reference: **aa041469.d**
Date Finished: 17/07/2019
Order: E0839
Project: EU4-DDH
Date Received: 01/07/2019
Type of Sample: Pulps
Samples Analysed: **90**

FINAL ANALYSIS REPORT

Analysis of Mineral Samples

for

Prodigy Gold Euro JV

Prodigy Euro JV Account
Level 1

141 Broadway Nedlands WA 6009

Attention: Lab Results

Authorised By:

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Method	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Result Name	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
BLANK 1	<0.2	<100	<1	<2	<0.5	<0.1	<100	<0.5
PG012695	<0.2	7.35%	12	364	3.0	0.8	1800	<0.5
PG012697	<0.2	6.89%	3	496	2.5	0.2	3000	<0.5
PG012697 Rpt	<0.2	6.92%	3	484	2.5	0.2	2900	<0.5
PG012699	<0.2	6.56%	2	344	2.5	<0.1	1.38%	<0.5
PG012701	<0.2	6.52%	4	328	3.0	<0.1	3.28%	<0.5
PG012703	<0.2	7.12%	2	274	2.5	<0.1	5400	<0.5
PG012705	<0.2	6.35%	2	382	2.5	<0.1	4300	<0.5
PG012707	<0.2	7.63%	5	314	3.5	0.3	5200	<0.5
PG012709	<0.2	7.05%	4	682	3.0	0.2	7000	<0.5
PG012711	<0.2	6.66%	3	310	2.5	<0.1	4700	<0.5
PG012713	<0.2	6.82%	4	396	2.5	<0.1	3900	<0.5
PG012715	<0.2	6.61%	4	380	3.0	<0.1	5500	<0.5
PG012717	<0.2	7.43%	4	346	3.5	0.2	6300	<0.5
PG012719	<0.2	6.91%	4	348	3.0	0.2	5600	<0.5
PG012721	<0.2	7.88%	2	268	3.5	<0.1	1700	<0.5
PG012723	<0.2	7.23%	2	448	3.0	0.2	2100	<0.5
Std Nominal	0.4	6.16%	749	142			2.79%	
Determined	<0.2	6.30%	730	144	2.0	0.5	2.81%	<0.5
PG012725	<0.2	7.93%	4	538	3.0	<0.1	1700	<0.5
PG012727	<0.2	8.00%	2	390	3.5	<0.1	1900	<0.5
PG012729	<0.2	6.79%	3	410	2.5	<0.1	6800	<0.5
PG012731	<0.2	6.69%	2	480	2.5	<0.1	3000	<0.5
PG012733	<0.2	8.36%	9	516	5.0	0.3	3500	<0.5
PG012735	<0.2	6.96%	3	346	3.0	<0.1	2600	<0.5
PG012737	<0.2	6.76%	2	372	2.5	<0.1	1600	<0.5
PG012739	<0.2	7.68%	6	492	3.5	0.2	8900	<0.5
PG012741	<0.2	7.87%	4	496	3.0	<0.1	1800	<0.5
PG012743	<0.2	7.55%	13	306	3.5	0.3	9000	<0.5
PG012745	<0.2	8.94%	2	532	5.0	0.2	1400	<0.5
PG012747	<0.2	7.50%	2	416	3.0	0.3	2400	<0.5
PG012749	<0.2	7.00%	<1	450	3.0	0.2	3000	<0.5
PG012751	<0.2	6.66%	3	230	3.0	0.2	1600	<0.5
PG012753	<0.2	6.30%	2	212	2.5	0.2	1400	<0.5
PG012753 Rpt	<0.2	6.24%	2	210	2.5	0.2	1400	<0.5
PG012755	<0.2	7.11%	<1	452	3.5	0.2	1400	<0.5
PG012757	<0.2	8.94%	4	524	4.5	0.3	1500	<0.5
PG012759	<0.2	6.56%	5	502	3.0	0.3	9400	<0.5
PG012761	<0.2	6.16%	6	426	2.5	0.3	1.37%	<0.5
PG012763	<0.2	7.24%	6	550	3.0	0.3	3600	<0.5
PG012765	<0.2	8.85%	10	528	4.5	0.4	7700	<0.5



Reference: aa041469.d Order Number: E0839 Page 2 of 25

Method	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Result Name	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
PG012767	<0.2	6.94%	4	546	2.5	0.2	4700	<0.5
PG012769	<0.2	6.75%	7	440	3.0	0.3	1.29%	<0.5
PG012771	<0.2	8.83%	8	456	4.5	0.4	8900	<0.5
Std Nominal	6.0	6.83%	96	132		3.5	2.48%	8.0
Determined	6.0	6.68%	102	130	1.0	3.5	2.46%	8.0
PG012773	<0.2	11.1%	7	628	6.5	0.4	1800	<0.5
PG012775	<0.2	10.0%	9	634	5.5	0.6	1900	<0.5
PG012777	<0.2	10.2%	7	668	6.0	0.8	1900	<0.5
PG012779	<0.2	10.9%	6	634	6.5	0.3	2300	<0.5
PG012781	<0.2	7.66%	7	460	4.0	0.5	2900	<0.5
PG012783	<0.2	5.90%	4	518	2.0	0.2	5400	<0.5
BLANK 2	<0.2	<100	<1	<2	<0.5	<0.1	<100	<0.5
PG012785	<0.2	6.71%	6	494	3.0	0.3	7800	<0.5
PG012787	<0.2	6.19%	4	484	2.5	0.2	5200	<0.5
Std Nominal		4.63%	3	984	1.5	<0.1	600	<0.5
Determined	<0.2	4.81%	3	1030	2.0	<0.1	700	<0.5
PG012789	<0.2	5.70%	5	496	2.5	0.2	1.07%	<0.5
PG012791	<0.2	5.90%	5	518	2.5	<0.1	6300	<0.5
PG012793	<0.2	5.85%	5	532	2.5	0.2	5400	<0.5
PG012795	<0.2	5.91%	6	358	2.0	<0.1	4200	<0.5
PG012797	<0.2	5.65%	6	470	2.5	0.2	7000	<0.5
PG012799	0.4	5.86%	24	490	2.5	0.5	4700	<0.5
PG012801	<0.2	5.94%	11	542	2.0	0.2	5100	<0.5
PG012803	<0.2	6.31%	9	532	2.5	0.3	4500	<0.5
PG012805	<0.2	8.20%	26	360	3.5	1.8	8500	<0.5
PG012807	<0.2	6.95%	23	238	3.0	0.6	5700	<0.5
PG012809	<0.2	9.25%	2	542	4.5	0.4	1600	<0.5
PG012811	<0.2	10.6%	5	686	5.0	0.3	1500	<0.5
PG012811 Rpt	<0.2	10.7%	5	702	5.0	0.3	1600	<0.5
PG012813	<0.2	10.5%	4	682	4.5	0.2	2500	<0.5
PG012815	<0.2	6.28%	7	276	2.0	0.9	1900	<0.5
PG012817	<0.2	8.94%	2	588	3.5	0.3	8600	<0.5
PG012819	<0.2	9.85%	3	612	4.0	0.4	1400	<0.5
PG012821	<0.2	8.47%	2	532	3.5	0.2	1800	<0.5
PG012823	<0.2	6.56%	8	432	2.5	0.4	2000	<0.5
PG012825	<0.2	8.88%	13	524	4.0	0.2	5500	<0.5
PG012827	<0.2	8.55%	3	436	4.0	<0.1	2400	<0.5
PG012829	<0.2	5.03%	51	98	2.0	2.2	2.11%	<0.5
PG012831	<0.2	5.50%	28	76	2.0	1.4	1.99%	<0.5
PG012833	<0.2	3.95%	38	202	1.5	1.7	2.03%	<0.5
PG012835	0.6	5.44%	118	208	2.0	7.2	7200	<0.5



Reference: aa041469.d Order Number: E0839 Page 3 of 25

Method	MA102	MA101	MA102	MA101	MA102	MA102	MA101	MA102
Result Name	Ag	Al	As	Ba	Be	Bi	Ca	Cd
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.2	100	1	2	0.5	0.1	100	0.5
PG012837	<0.2	5.30%	43	112	1.5	1.7	7800	<0.5
PG012839	<0.2	6.79%	3	202	1.5	<0.1	1.82%	<0.5
PG012841	<0.2	6.71%	4	258	2.0	<0.1	1.02%	<0.5
PG012843	<0.2	6.01%	3	194	1.0	<0.1	1.34%	<0.5
Std Nominal	1.8	7.90%	21	922	3.0	4.3	3.00%	1.0
Determined	2.2	7.93%	20	944	3.0	4.3	3.06%	<0.5
PG012845	<0.2	8.78%	2	312	2.0	<0.1	7800	<0.5
PG012847	<0.2	8.57%	4	290	2.5	<0.1	9200	<0.5
PG012849	<0.2	8.92%	29	262	2.5	<0.1	3400	<0.5
PG012851	<0.2	8.87%	19	300	2.5	<0.1	5000	<0.5
PG012853	<0.2	8.94%	7	292	2.0	<0.1	5300	<0.5
PG012855	<0.2	9.09%	4	332	2.0	<0.1	7500	<0.5
PG012857	<0.2	5.90%	<1	162	1.0	<0.1	1.98%	<0.5
PG012859	<0.2	4.86%	2	86	1.0	<0.1	1.65%	<0.5
PG012861	<0.2	4.48%	<1	84	1.0	<0.1	1.88%	<0.5
PG012863	<0.2	6.21%	6	198	1.5	0.2	1.96%	<0.5
PG012865	<0.2	6.33%	<1	76	1.5	<0.1	3.92%	<0.5
PG012867	<0.2	5.78%	<1	100	1.5	<0.1	4.37%	<0.5
PG012869	<0.2	6.08%	2	36	2.0	<0.1	3.65%	<0.5
PG012871	<0.2	5.33%	2	72	1.0	<0.1	3.78%	<0.5
PG012873	<0.2	2.37%	2	40	0.5	<0.1	13.2%	<0.5
Std Nominal	0.8	7.68%	18	1010	3.0	1.5	2.71%	<0.5
Determined	0.8	7.81%	19	1000	3.5	1.6	2.82%	<0.5



Reference: aa041469.d Order Number: E0839 Page 4 of 25

Method	MA102	MA101	MA102	MA102	MA101	MA102	MA102	MA102
Result Name	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	1	100	0.2	0.2	0.05
BLANK 1	<1	<10	<0.1	<1	<100	<0.2	<0.2	<0.05
PG012695	11	40	3.3	18	4.08%	18.4	5.4	0.10
PG012697	8	40	3.3	7	3.08%	18.4	6.2	<0.05
PG012697 Rpt	8	40	3.2	6	3.11%	18.2	6.2	<0.05
PG012699	5	40	2.6	7	2.40%	16.6	5.8	<0.05
PG012701	7	40	3.2	11	3.02%	17.8	5.2	<0.05
PG012703	15	40	2.2	62	3.10%	18.4	6.4	<0.05
PG012705	7	40	2.5	35	3.27%	16.8	5.8	<0.05
PG012707	14	40	3.1	62	3.31%	18.8	6.2	<0.05
PG012709	9	80	3.4	26	4.53%	19.4	5.8	<0.05
PG012711	8	40	2.5	17	3.33%	17.6	6.0	<0.05
PG012713	10	40	3.2	50	3.36%	19.0	5.8	<0.05
PG012715	8	40	2.9	38	3.23%	18.4	5.2	<0.05
PG012717	9	60	4.0	10	3.79%	20.6	4.2	<0.05
PG012719	8	40	2.9	28	3.78%	17.8	5.6	<0.05
PG012721	9	40	4.1	6	3.84%	22.6	5.2	<0.05
PG012723	8	40	4.1	17	3.41%	20.4	5.8	<0.05
Std Nominal	160	2060		120	9.79%			
Determined	155	1990	2.2	114	9.91%	14.2	1.2	0.10
PG012725	8	40	4.2	18	3.66%	21.8	5.0	<0.05
PG012727	9	40	3.5	8	3.58%	21.6	5.4	<0.05
PG012729	6	40	3.3	21	2.93%	17.0	5.6	<0.05
PG012731	7	40	3.7	18	3.19%	17.8	5.6	<0.05
PG012733	10	80	4.6	12	3.69%	24.6	5.4	<0.05
PG012735	6	60	3.5	6	3.28%	17.6	5.4	<0.05
PG012737	10	60	3.3	17	3.19%	19.6	5.6	<0.05
PG012739	13	60	5.0	10	3.66%	23.4	5.0	<0.05
PG012741	10	80	4.5	12	3.83%	22.6	4.4	<0.05
PG012743	16	60	4.3	17	4.56%	23.0	4.4	<0.05
PG012745	12	60	6.5	9	3.72%	27.0	4.8	<0.05
PG012747	10	40	3.9	6	3.77%	20.6	5.6	<0.05
PG012749	8	60	3.8	6	3.37%	18.4	5.6	<0.05
PG012751	9	60	3.1	8	3.91%	18.2	5.4	<0.05
PG012753	7	60	2.9	10	3.51%	18.0	4.8	<0.05
PG012753 Rpt	8	60	2.9	10	3.43%	17.6	4.6	<0.05
PG012755	6	40	4.3	9	3.25%	21.0	5.4	<0.05
PG012757	19	80	5.9	7	3.86%	27.2	5.6	<0.05
PG012759	8	60	3.5	17	3.30%	17.6	5.4	<0.05
PG012761	8	40	3.4	30	3.35%	16.2	5.2	<0.05
PG012763	10	40	4.1	13	3.38%	19.8	5.4	<0.05
PG012765	15	60	6.2	30	4.48%	28.6	4.8	0.10



Reference: aa041469.d Order Number: E0839 Page 5 of 25

Method	MA102	MA101	MA102	MA102	MA101	MA102	MA102	MA102
Result Name	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	1	100	0.2	0.2	0.05
PG012767	9	60	4.0	13	3.51%	17.4	4.8	<0.05
PG012769	11	60	4.5	23	3.39%	19.6	5.6	<0.05
PG012771	13	80	5.8	14	4.02%	27.8	4.4	0.10
Std Nominal	43	220		1520	8.65%			
Determined	44	240	16.2	1510	8.55%	22.0	2.6	0.55
PG012773	13	80	8.7	33	4.78%	33.6	3.8	0.10
PG012775	15	80	8.2	35	4.86%	29.4	3.8	0.10
PG012777	14	80	8.4	92	4.77%	31.8	4.0	0.10
PG012779	13	80	9.0	16	4.84%	34.4	4.4	0.10
PG012781	11	60	5.0	30	3.63%	23.0	6.0	<0.05
PG012783	6	40	3.2	8	2.92%	14.0	5.2	<0.05
BLANK 2	<1	<10	<0.1	<1	<100	<0.2	<0.2	<0.05
PG012785	8	40	3.6	17	3.04%	16.8	5.2	<0.05
PG012787	5	40	3.7	8	2.30%	17.0	6.2	<0.05
Std Nominal	4	30	0.7	3	1.57%	11.0	1.6	<0.05
Determined	4	40	0.6	6	1.67%	11.0	1.4	<0.05
PG012789	5	40	3.5	9	2.58%	15.0	5.0	<0.05
PG012791	6	40	3.5	7	2.64%	15.0	5.6	<0.05
PG012793	6	40	3.6	9	2.28%	15.0	5.6	<0.05
PG012795	6	60	3.2	11	2.51%	14.6	5.8	<0.05
PG012797	6	40	3.7	10	2.26%	15.2	6.2	<0.05
PG012799	8	40	3.9	238	2.44%	16.8	6.0	0.30
PG012801	9	40	3.6	17	2.32%	15.8	6.6	<0.05
PG012803	7	40	4.1	13	2.43%	16.6	6.4	<0.05
PG012805	17	60	5.4	76	3.42%	25.4	4.2	0.10
PG012807	12	80	4.3	28	4.34%	17.6	4.4	<0.05
PG012809	10	60	8.2	13	3.85%	26.8	4.4	<0.05
PG012811	10	80	10.5	9	4.30%	32.0	3.6	0.10
PG012811 Rpt	10	80	10.8	10	4.29%	33.4	3.8	0.10
PG012813	11	100	10.2	28	4.22%	33.6	4.2	0.10
PG012815	23	60	3.9	21	3.68%	16.0	5.0	<0.05
PG012817	7	80	8.4	10	3.73%	25.8	3.8	0.10
PG012819	13	100	8.7	11	5.06%	28.8	3.4	0.10
PG012821	9	80	7.3	10	4.23%	24.6	4.4	<0.05
PG012823	8	40	5.1	21	3.08%	18.8	5.4	<0.05
PG012825	13	60	8.3	59	4.22%	27.0	3.8	0.10
PG012827	6	60	7.9	92	4.15%	27.0	4.4	<0.05
PG012829	30	80	1.9	78	6.45%	15.8	3.0	<0.05
PG012831	22	110	1.3	75	8.17%	16.0	2.8	<0.05
PG012833	23	100	0.8	130	5.65%	12.0	2.4	0.10
PG012835	53	100	2.1	1490	7.58%	16.2	2.8	<0.05



Reference: aa041469.d Order Number: E0839 Page 6 of 25

Method	MA102	MA101	MA102	MA102	MA101	MA102	MA102	MA102
Result Name	Co	Cr	Cs	Cu	Fe	Ga	Hf	In
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	1	10	0.1	1	100	0.2	0.2	0.05
PG012837	30	110	1.6	575	6.86%	15.4	2.8	<0.05
PG012839	41	110	1.1	44	9.66%	21.8	4.8	0.10
PG012841	54	130	1.5	18	9.20%	24.6	4.8	0.10
PG012843	37	110	1.3	83	8.65%	19.8	4.4	0.10
Std Nominal	16	90	9.6	7550	5.80%	23.0	2.0	0.60
Determined	17	90	9.9	7610	5.79%	22.2	2.6	0.55
PG012845	21	220	3.5	27	7.83%	25.6	3.2	0.10
PG012847	22	200	3.0	43	8.38%	24.4	3.0	0.10
PG012849	34	280	3.2	141	7.97%	25.0	3.8	0.10
PG012851	30	240	3.4	65	7.13%	26.2	3.8	0.10
PG012853	30	260	3.0	81	8.14%	25.2	3.4	0.10
PG012855	24	240	3.5	18	7.85%	26.4	3.6	0.10
PG012857	39	100	0.8	140	8.31%	17.0	4.4	0.10
PG012859	27	100	0.5	115	7.22%	14.0	4.0	<0.05
PG012861	23	80	0.5	64	6.50%	12.8	3.6	<0.05
PG012863	59	100	0.9	140	8.90%	19.4	4.4	0.10
PG012865	53	60	0.3	264	12.1%	22.4	5.2	0.10
PG012867	49	60	0.3	253	11.0%	23.8	5.0	0.10
PG012869	52	60	0.2	317	11.8%	23.2	4.4	0.10
PG012871	34	80	0.5	71	9.86%	18.2	3.6	0.10
PG012873	28	40	0.2	143	4.96%	7.0	1.0	0.10
Std Nominal	16	90	12.2	2600	4.54%	19.6	2.6	0.20
Determined	17	100	11.8	2720	4.67%	20.0	2.8	0.20



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Method	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Result Name	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
BLANK 1	<100	<10	<100	<2	<0.5	<100	<0.5	<2
PG012695	2.60%	10	1.22%	160	1.0	1.71%	11.0	24
PG012697	2.85%	<10	8800	176	1.0	1.94%	11.0	20
PG012697 Rpt	2.87%	<10	8600	180	1.0	1.93%	11.0	18
PG012699	2.47%	<10	1.00%	524	1.0	2.14%	9.0	18
PG012701	2.77%	<10	1.76%	1190	1.0	1.59%	10.0	16
PG012703	2.09%	10	1.02%	224	1.5	2.45%	11.5	26
PG012705	2.55%	10	1.04%	216	1.0	1.37%	9.0	18
PG012707	2.53%	10	1.38%	224	<0.5	2.08%	10.5	22
PG012709	3.14%	10	1.27%	364	2.5	1.22%	10.5	28
PG012711	2.35%	10	1.20%	216	<0.5	1.59%	10.0	20
PG012713	2.94%	10	1.20%	216	<0.5	1.13%	10.0	20
PG012715	2.62%	20	1.20%	208	<0.5	1.20%	10.0	20
PG012717	3.20%	20	2.29%	252	1.0	6000	11.0	26
PG012719	2.90%	30	2.72%	148	1.0	800	10.0	24
PG012721	3.35%	30	2.90%	136	<0.5	600	11.5	28
PG012723	3.25%	20	2.02%	164	<0.5	8500	11.5	24
Std Nominal	5600		6.85%	2380		6300		1180
Determined	5600	10	7.17%	2360	1.0	6400	2.0	1220
PG012725	3.70%	20	1.71%	152	<0.5	9600	11.5	26
PG012727	3.47%	20	2.16%	140	<0.5	8500	11.5	26
PG012729	3.41%	20	1.71%	248	1.0	5800	10.5	20
PG012731	3.24%	10	1.35%	200	1.0	9300	10.5	18
PG012733	3.75%	30	2.33%	132	1.0	3200	13.0	30
PG012735	3.19%	20	2.23%	148	<0.5	3600	10.0	22
PG012737	2.52%	10	1.50%	136	<0.5	1.66%	11.5	20
PG012739	3.28%	20	1.68%	336	2.0	1.17%	12.5	28
PG012741	3.18%	10	1.54%	164	<0.5	1.56%	12.0	28
PG012743	3.19%	30	2.95%	320	<0.5	1700	11.5	32
PG012745	4.56%	20	2.11%	148	<0.5	2800	13.5	28
PG012747	3.92%	20	2.33%	168	1.0	700	11.5	26
PG012749	3.80%	20	2.45%	156	<0.5	900	11.0	28
PG012751	2.39%	40	3.76%	148	1.0	500	11.0	36
PG012753	2.21%	30	3.49%	112	<0.5	500	9.5	32
PG012753 Rpt	2.16%	30	3.40%	112	1.0	600	9.5	32
PG012755	3.48%	20	1.51%	128	<0.5	4000	11.5	22
PG012757	4.46%	20	2.09%	124	<0.5	2100	15.0	32
PG012759	3.15%	10	1.27%	312	1.0	9500	10.5	20
PG012761	2.92%	10	1.43%	448	<0.5	1.01%	9.5	16
PG012763	3.43%	10	1.10%	168	<0.5	1.17%	11.5	22
PG012765	4.07%	20	1.54%	332	<0.5	8000	15.0	32



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Method	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Result Name	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
PG012767	3.32%	10	1.07%	308	<0.5	1.16%	10.5	22
PG012769	3.22%	<10	1.27%	480	<0.5	1.05%	12.0	20
PG012771	4.06%	20	1.70%	336	<0.5	4800	15.0	32
Std Nominal	2.35%		1.77%	1180	54.0	1.30%		74
Determined	2.36%	10	1.69%	1170	54.5	1.27%	4.5	72
PG012773	5.25%	20	1.71%	156	<0.5	3800	16.0	36
PG012775	4.63%	20	1.53%	172	<0.5	6500	15.5	34
PG012777	4.90%	20	1.46%	180	<0.5	6400	15.5	34
PG012779	5.12%	20	1.60%	172	<0.5	5100	17.0	36
PG012781	3.54%	10	1.04%	156	1.0	6800	12.0	26
PG012783	3.15%	10	8700	252	1.0	8200	8.5	16
BLANK 2	<100	<10	<100	<2	<0.5	<100	<0.5	<2
PG012785	3.11%	20	1.23%	304	<0.5	8800	10.0	18
PG012787	3.27%	10	9200	180	1.0	6700	10.5	16
Std Nominal	2.59%	<10	2300	780	7.0	2300	7.5	8
Determined	2.75%	<10	2500	768	7.0	2400	7.5	10
PG012789	2.99%	<10	9800	408	1.0	8500	8.5	16
PG012791	3.06%	<10	7900	264	1.0	8800	9.0	16
PG012793	3.06%	<10	7400	232	1.0	8400	9.0	16
PG012795	2.79%	10	1.03%	164	1.0	4500	9.0	16
PG012797	2.79%	<10	8700	312	1.0	7800	9.0	16
PG012799	2.79%	<10	8600	236	1.5	7400	9.5	20
PG012801	3.10%	<10	7900	252	<0.5	8300	9.5	16
PG012803	3.32%	<10	8100	188	<0.5	7800	10.0	16
PG012805	3.44%	20	1.29%	332	1.0	4500	13.5	26
PG012807	2.67%	30	1.91%	216	1.0	1400	9.5	38
PG012809	4.02%	20	1.82%	88	<0.5	700	13.5	28
PG012811	4.83%	20	1.68%	96	<0.5	800	14.0	34
PG012811 Rpt	4.97%	20	1.73%	96	<0.5	800	14.5	34
PG012813	4.74%	20	1.78%	160	<0.5	800	15.0	36
PG012815	2.28%	20	2.08%	124	1.0	600	8.5	20
PG012817	3.91%	20	1.99%	400	1.0	700	13.0	28
PG012819	3.95%	20	2.19%	148	<0.5	700	14.5	36
PG012821	3.42%	20	2.07%	144	1.0	700	12.0	26
PG012823	2.64%	20	1.63%	128	1.0	1400	11.0	18
PG012825	3.69%	20	2.24%	268	<0.5	700	13.5	32
PG012827	3.43%	20	2.21%	164	1.0	700	13.0	28
PG012829	1.20%	40	3.65%	412	1.5	400	8.0	50
PG012831	7200	60	5.02%	652	1.5	400	6.5	62
PG012833	6800	40	3.83%	632	2.0	400	5.0	48
PG012835	2.05%	30	2.28%	216	5.5	500	8.0	84



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Method	MA101	MA101	MA101	MA101	MA102	MA101	MA102	MA101
Result Name	K	Li	Mg	Mn	Mo	Na	Nb	Ni
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	100	10	100	2	0.5	100	0.5	2
PG012837	1.33%	40	3.46%	328	2.0	400	6.0	58
PG012839	1.16%	30	4.36%	860	<0.5	3200	8.5	66
PG012841	1.41%	30	3.73%	588	<0.5	2200	9.0	66
PG012843	1.11%	30	3.13%	832	<0.5	4400	7.5	54
Std Nominal	3.10%	30	1.70%	600	274		16.0	50
Determined	3.18%	30	1.64%	588	269	2.08%	15.5	36
PG012845	2.95%	20	2.18%	440	2.0	700	8.5	116
PG012847	2.77%	30	2.43%	532	2.0	600	7.5	112
PG012849	2.90%	30	2.27%	232	<0.5	600	8.0	126
PG012851	3.05%	30	1.92%	304	1.5	900	9.5	120
PG012853	2.87%	30	1.99%	344	<0.5	1500	9.0	132
PG012855	3.19%	30	2.10%	440	<0.5	1200	9.5	118
PG012857	8400	30	3.29%	1260	<0.5	1.12%	6.5	54
PG012859	4300	20	2.67%	1050	<0.5	1.30%	5.0	44
PG012861	4200	20	2.60%	1150	<0.5	1.09%	5.0	40
PG012863	8900	30	3.33%	1360	<0.5	1.17%	7.0	60
PG012865	1000	30	2.83%	1600	1.0	2.16%	15.0	62
PG012867	900	20	2.34%	1540	1.0	2.35%	15.0	56
PG012869	200	30	3.53%	1790	<0.5	1.55%	13.0	58
PG012871	4000	40	3.96%	2330	<0.5	8500	9.0	54
PG012873	2000	20	3.45%	3270	6.0	2700	2.5	28
Std Nominal	3.14%	30	1.48%	546	99.0	2.08%	18.0	42
Determined	3.17%	30	1.52%	596	101	1.97%	18.5	42



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Method	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Result Name	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
BLANK 1	<50	<1	<0.2	<0.1	<50	<0.1	<1	<5
PG012695	650	9	130	<0.1	1050	0.7	10	<5
PG012697	650	10	139	<0.1	650	0.5	9	<5
PG012697 Rpt	650	10	138	<0.1	600	0.5	9	<5
PG012699	600	8	120	<0.1	150	0.5	8	<5
PG012701	600	6	141	<0.1	150	0.5	8	<5
PG012703	700	8	106	<0.1	350	0.5	9	<5
PG012705	600	6	127	<0.1	400	0.6	8	<5
PG012707	700	6	116	<0.1	900	0.7	10	<5
PG012709	700	8	153	<0.1	2000	0.7	9	<5
PG012711	600	6	115	<0.1	650	0.5	9	<5
PG012713	650	7	148	<0.1	600	0.7	9	<5
PG012715	600	6	136	<0.1	2000	0.6	9	<5
PG012717	550	5	157	<0.1	350	0.7	11	<5
PG012719	600	4	132	<0.1	4600	0.7	10	<5
PG012721	650	4	169	<0.1	600	0.7	12	<5
PG012723	650	8	169	<0.1	350	0.7	11	<5
Std Nominal	100	39			600	4.0	33	
Determined	100	37	23.4	<0.1	550	4.3	33	<5
PG012725	650	7	180	<0.1	100	0.7	12	<5
PG012727	650	6	169	<0.1	500	0.6	11	<5
PG012729	600	7	153	<0.1	600	0.7	9	<5
PG012731	600	8	157	<0.1	100	0.6	9	<5
PG012733	600	5	196	<0.1	2150	1.0	13	<5
PG012735	600	6	147	<0.1	800	0.7	10	<5
PG012737	600	7	133	<0.1	200	0.5	9	<5
PG012739	600	8	197	<0.1	750	0.8	12	<5
PG012741	600	8	171	<0.1	100	0.7	12	<5
PG012743	550	5	166	<0.1	3650	2.0	12	<5
PG012745	600	7	243	<0.1	350	1.2	14	<5
PG012747	600	6	179	<0.1	850	0.7	10	<5
PG012749	600	7	169	<0.1	900	0.7	10	<5
PG012751	550	4	126	<0.1	950	0.7	10	<5
PG012753	550	3	121	<0.1	850	0.7	9	<5
PG012753 Rpt	500	3	120	<0.1	850	0.7	9	<5
PG012755	600	8	185	<0.1	250	0.9	10	<5
PG012757	600	7	245	<0.1	1350	1.0	14	<5
PG012759	550	8	163	<0.1	700	0.8	8	<5
PG012761	550	7	147	<0.1	250	0.7	8	<5
PG012763	600	9	179	<0.1	150	0.7	10	<5
PG012765	550	7	254	<0.1	900	1.2	13	<5



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Method	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Result Name	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
PG012767	600	9	162	<0.1	150	0.7	10	<5
PG012769	600	10	182	<0.1	50	0.7	9	<5
PG012771	600	5	235	<0.1	800	1.1	14	<5
Std Nominal	600	521	561		2.01%	12.0	15	
Determined	650	522	539	<0.1	2.01%	11.2	15	5
PG012773	600	6	324	<0.1	250	1.4	18	<5
PG012775	600	7	283	<0.1	650	1.4	16	<5
PG012777	600	8	305	<0.1	300	1.5	16	<5
PG012779	600	7	331	<0.1	100	1.5	18	<5
PG012781	550	7	212	<0.1	250	1.1	11	<5
PG012783	550	8	144	<0.1	400	0.7	7	<5
BLANK 2	<50	<1	<0.2	<0.1	<50	<0.1	<1	<5
PG012785	600	7	155	<0.1	150	0.8	8	<5
PG012787	550	8	169	<0.1	350	0.7	7	<5
Std Nominal	100	18	88.0	<0.1	<50	<0.1	3	<5
Determined	150	17	83.2	<0.1	<50	<0.1	3	<5
PG012789	500	9	152	<0.1	<50	0.6	7	<5
PG012791	500	8	157	<0.1	300	0.7	7	<5
PG012793	500	9	157	<0.1	300	0.7	7	<5
PG012795	500	5	141	<0.1	750	0.8	7	<5
PG012797	500	10	158	<0.1	150	0.7	7	<5
PG012799	550	9	156	0.4	450	2.5	7	<5
PG012801	550	8	161	<0.1	200	0.9	7	<5
PG012803	550	9	175	<0.1	200	1.0	7	<5
PG012805	600	7	211	<0.1	3000	1.5	13	<5
PG012807	550	10	137	<0.1	6800	1.9	11	<5
PG012809	550	6	256	<0.1	600	1.3	14	<5
PG012811	450	5	314	<0.1	600	1.4	17	<5
PG012811 Rpt	500	5	316	<0.1	600	1.4	17	<5
PG012813	500	4	326	<0.1	400	1.4	17	<5
PG012815	500	32	132	<0.1	2400	0.8	9	<5
PG012817	650	7	246	<0.1	300	1.0	16	<5
PG012819	550	7	249	<0.1	700	1.0	17	<5
PG012821	600	6	212	<0.1	550	1.0	13	<5
PG012823	550	12	169	<0.1	500	0.8	9	<5
PG012825	500	7	238	<0.1	<50	0.9	15	<5
PG012827	550	6	234	<0.1	250	1.2	14	<5
PG012829	600	11	74.8	<0.1	2.10%	1.7	17	<5
PG012831	550	21	40.6	<0.1	1.30%	1.6	23	<5
PG012833	450	16	40.2	<0.1	1.25%	1.8	16	<5
PG012835	500	144	114	<0.1	5.85%	3.3	16	5



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Method	MA101	MA102	MA102	MA102	MA101	MA102	MA101	MA102
Result Name	P	Pb	Rb	Re	S	Sb	Sc	Se
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	50	1	0.2	0.1	50	0.1	1	5
PG012837	500	29	68.2	<0.1	2.40%	2.0	18	<5
PG012839	700	3	51.4	<0.1	2750	1.0	30	<5
PG012841	750	4	66.0	<0.1	4700	1.0	30	<5
PG012843	700	3	52.4	<0.1	2700	0.8	27	<5
Std Nominal	1000	29	145		9250	0.9	14	5
Determined	1050	29	150	<0.1	9950	0.9	14	10
PG012845	400	2	135	<0.1	250	0.7	30	<5
PG012847	400	2	118	<0.1	900	0.5	29	<5
PG012849	400	3	125	<0.1	650	0.5	29	<5
PG012851	400	3	141	<0.1	250	0.8	30	<5
PG012853	400	3	125	<0.1	350	0.7	31	<5
PG012855	400	3	144	<0.1	500	0.9	31	<5
PG012857	650	4	38.0	<0.1	2150	0.8	24	<5
PG012859	550	4	21.6	<0.1	700	0.8	18	<5
PG012861	450	3	20.8	<0.1	1100	0.7	17	<5
PG012863	700	4	43.4	<0.1	9450	1.2	26	<5
PG012865	1150	4	3.0	<0.1	300	0.7	32	<5
PG012867	1050	4	2.4	<0.1	200	0.6	29	<5
PG012869	1150	5	1.2	<0.1	300	0.9	31	<5
PG012871	900	4	19.8	<0.1	900	1.1	23	<5
PG012873	450	3	8.8	<0.1	1600	0.5	8	<5
Std Nominal	1000	23	184	<0.1	3550	0.9	13	<5
Determined	1050	24	201	<0.1	3650	0.7	13	<5



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Method	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Result Name	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
BLANK 1	<0.1	<0.5	<0.1	<0.2	<0.1	150	<0.1	<0.1
PG012695	4.3	65.0	1.1	<0.2	17.1	3050	0.6	4.4
PG012697	4.3	85.5	1.0	<0.2	18.9	2900	0.7	4.3
PG012697 Rpt	4.2	84.5	1.0	<0.2	19.0	2900	0.7	4.3
PG012699	3.8	83.5	0.9	<0.2	16.7	2550	0.6	4.0
PG012701	4.2	62.0	1.0	<0.2	15.3	2700	0.7	3.8
PG012703	4.3	84.0	1.2	<0.2	18.4	3150	0.5	3.8
PG012705	3.9	55.5	0.9	<0.2	16.6	2600	0.6	4.8
PG012707	4.5	73.0	1.1	<0.2	17.4	4200	0.6	3.8
PG012709	4.6	56.0	1.0	<0.2	16.9	3050	0.7	4.4
PG012711	4.2	53.5	1.0	<0.2	16.4	2900	0.5	3.5
PG012713	4.4	45.0	1.0	<0.2	18.0	3150	0.7	4.4
PG012715	4.4	45.5	1.0	<0.2	14.6	2700	0.6	3.0
PG012717	4.5	28.5	1.0	<0.2	13.6	3350	0.7	4.0
PG012719	4.7	16.5	1.0	<0.2	15.9	3050	0.5	5.2
PG012721	4.8	11.0	1.1	<0.2	15.9	3500	0.7	4.4
PG012723	4.5	42.0	1.1	<0.2	16.4	3300	0.8	4.1
Std Nominal	1.0	42.0				3400		
Determined	1.4	41.5	0.2	0.2	1.8	3450	0.5	1.9
PG012725	4.3	44.5	1.1	<0.2	14.7	3650	0.8	3.7
PG012727	4.5	36.0	1.1	<0.2	16.6	3350	0.7	5.0
PG012729	4.2	34.0	1.0	<0.2	17.4	2950	0.7	4.7
PG012731	4.2	54.5	1.0	<0.2	17.1	2850	0.8	3.9
PG012733	5.5	24.0	1.2	<0.2	16.5	3900	0.8	4.4
PG012735	3.9	25.5	1.0	<0.2	17.0	3150	0.6	3.7
PG012737	4.4	66.0	1.1	<0.2	15.6	3000	0.6	3.9
PG012739	4.7	57.5	1.2	<0.2	14.8	3500	0.9	4.1
PG012741	4.5	66.5	1.2	<0.2	12.9	3500	0.8	3.6
PG012743	5.1	20.5	1.1	<0.2	14.6	3250	0.8	4.5
PG012745	6.1	26.5	1.3	<0.2	17.0	3650	1.1	4.6
PG012747	4.6	24.5	1.1	<0.2	17.2	3250	0.8	3.3
PG012749	4.1	32.5	1.0	<0.2	15.7	3050	0.8	3.5
PG012751	3.9	10.5	1.0	<0.2	14.6	3000	0.5	3.4
PG012753	3.8	8.5	0.9	<0.2	13.5	2900	0.5	2.9
PG012753 Rpt	3.8	8.5	0.9	<0.2	14.0	2850	0.5	3.0
PG012755	4.6	28.0	1.1	<0.2	18.1	3100	0.9	4.5
PG012757	5.9	21.5	1.4	<0.2	17.2	4000	1.1	4.7
PG012759	4.2	48.0	1.0	<0.2	17.8	2750	0.8	4.0
PG012761	4.0	44.0	0.9	<0.2	17.0	2600	0.7	3.9
PG012763	4.2	53.5	1.1	<0.2	16.1	3150	0.9	4.1
PG012765	6.3	40.0	1.4	<0.2	16.7	3800	1.1	4.6



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Method	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Result Name	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
PG012767	3.9	48.0	1.0	<0.2	14.3	3050	0.8	3.6
PG012769	4.3	50.5	1.1	<0.2	17.9	2950	0.9	4.2
PG012771	6.0	27.0	1.4	<0.2	16.0	4000	1.1	4.3
Std Nominal		104				5100		
Determined	2.7	98.5	0.4	<0.2	2.6	5050	6.4	0.8
PG012773	6.8	21.0	1.4	<0.2	18.4	4050	1.5	5.4
PG012775	6.2	34.0	1.4	<0.2	17.8	3950	1.4	5.1
PG012777	6.6	35.5	1.4	<0.2	19.1	4000	1.5	5.3
PG012779	7.2	27.5	1.5	<0.2	19.3	4200	1.6	5.6
PG012781	5.0	30.5	1.1	<0.2	17.6	3150	1.0	4.7
PG012783	3.6	43.5	0.8	<0.2	15.9	2500	0.7	3.6
BLANK 2	<0.1	<0.5	<0.1	<0.2	<0.1	<50	<0.1	<0.1
PG012785	3.9	42.5	1.0	<0.2	14.2	2550	0.8	3.6
PG012787	4.2	42.0	1.0	<0.2	19.1	2550	0.8	3.9
Std Nominal	0.7	124	0.6	<0.2	5.6	2400	0.4	39.6
Determined	0.7	122	0.5	<0.2	5.3	2550	0.4	38.3
PG012789	3.8	49.5	0.8	<0.2	16.3	2150	0.7	3.8
PG012791	3.7	49.0	0.8	<0.2	17.3	2250	0.8	3.8
PG012793	3.8	49.0	0.8	<0.2	17.9	2250	0.8	3.9
PG012795	4.1	25.0	0.8	<0.2	18.1	2400	0.7	3.8
PG012797	3.8	47.5	0.9	<0.2	20.8	2150	0.8	4.3
PG012799	4.4	40.0	0.9	<0.2	17.9	2150	1.1	4.2
PG012801	4.1	46.0	0.9	<0.2	18.1	2350	0.8	3.9
PG012803	4.2	48.5	1.0	<0.2	20.0	2500	0.9	4.4
PG012805	5.9	23.0	1.3	<0.2	14.4	3300	1.0	6.2
PG012807	3.8	15.0	0.9	<0.2	13.5	3100	0.7	3.5
PG012809	5.8	21.5	1.3	<0.2	16.9	3250	1.3	4.2
PG012811	6.4	29.0	1.4	<0.2	18.3	3400	1.7	4.6
PG012811 Rpt	6.7	29.5	1.4	<0.2	19.0	3500	1.7	4.7
PG012813	6.7	30.0	1.4	<0.2	19.0	3500	1.6	5.3
PG012815	3.9	13.0	0.8	<0.2	15.0	2600	0.7	3.8
PG012817	6.1	24.0	1.3	<0.2	16.4	3300	1.3	4.1
PG012819	5.9	24.5	1.4	<0.2	15.4	3550	1.3	4.2
PG012821	5.4	21.5	1.2	<0.2	15.9	3200	1.1	3.9
PG012823	5.0	16.5	1.1	<0.2	15.8	2600	0.9	4.0
PG012825	5.7	23.5	1.3	<0.2	15.0	3350	1.3	4.0
PG012827	5.9	23.0	1.3	<0.2	16.2	3400	1.3	4.4
PG012829	2.3	83.0	0.5	<0.2	8.2	4200	0.5	2.9
PG012831	1.7	54.0	0.4	<0.2	5.8	5100	0.3	2.3
PG012833	1.5	54.0	0.4	<0.2	5.9	3200	0.3	2.4
PG012835	2.5	24.5	0.6	0.2	11.5	2550	0.8	4.8



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Method	MA102	MA102	MA102	MA102	MA102	MA101	MA102	MA102
Result Name	Sn	Sr	Ta	Te	Th	Ti	Tl	U
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.5	0.1	0.2	0.1	50	0.1	0.1
PG012837	1.7	19.5	0.5	<0.2	7.6	3750	0.5	3.5
PG012839	1.5	23.5	0.6	0.2	7.6	7600	0.2	1.5
PG012841	1.7	16.0	0.6	0.2	7.9	7650	0.3	1.4
PG012843	1.7	20.0	0.4	<0.2	8.0	6800	0.2	1.5
Std Nominal	11.0	364	0.9		14.0	4700	0.8	3.8
Determined	11.0	377	1.1	<0.2	14.6	4700	0.9	3.8
PG012845	2.2	15.0	0.5	<0.2	9.2	5750	0.6	2.1
PG012847	1.7	16.0	0.4	<0.2	8.7	5200	0.5	2.0
PG012849	1.9	14.0	0.5	<0.2	10.0	6000	0.6	2.0
PG012851	2.1	15.5	0.6	<0.2	10.1	6200	0.6	2.1
PG012853	1.8	16.5	0.6	<0.2	9.6	6150	0.5	1.9
PG012855	2.0	16.0	0.6	<0.2	9.4	6350	0.6	2.1
PG012857	1.3	47.0	0.4	0.4	10.7	6550	0.2	1.5
PG012859	1.0	43.5	0.4	0.4	10.8	5050	0.1	1.5
PG012861	1.0	35.5	0.4	0.2	9.8	4600	0.1	1.3
PG012863	1.5	48.5	0.4	0.4	8.4	6400	0.2	1.3
PG012865	1.8	94.0	0.8	<0.2	3.5	1.42%	<0.1	0.6
PG012867	1.7	94.0	0.9	<0.2	3.3	1.29%	<0.1	0.5
PG012869	1.7	88.0	0.7	<0.2	3.5	1.33%	<0.1	0.6
PG012871	1.3	33.0	0.5	<0.2	4.3	7650	<0.1	0.6
PG012873	0.6	111	0.2	<0.2	2.6	1600	<0.1	0.3
Std Nominal	5.6	338	1.4	<0.2	18.0	4650	0.9	4.9
Determined	5.6	356	1.4	<0.2	18.2	4800	1.1	5.0



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Method	MA101	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	1	0.1	0.1	0.05
BLANK 1	<5	<0.5	<0.1	<2	<1	<0.1	<0.1	<0.05
PG012695	55	3.0	20.1	32	161	45.7	83.2	10.3
PG012697	45	2.0	16.0	18	189	41.5	78.7	9.35
PG012697 Rpt	50	2.0	15.8	18	189	40.7	77.9	9.45
PG012699	45	1.5	17.9	12	179	44.7	82.4	10.1
PG012701	45	2.0	21.5	12	162	40.6	76.5	9.45
PG012703	50	1.5	18.6	14	203	57.9	108	13.1
PG012705	45	2.0	16.9	14	171	50.2	92.1	11.2
PG012707	55	4.0	20.5	14	185	48.6	90.5	11.0
PG012709	55	2.5	14.3	24	175	45.4	85.6	10.2
PG012711	50	1.5	14.8	14	177	40.7	78.2	9.45
PG012713	50	2.0	15.1	16	177	38.7	75.7	9.20
PG012715	45	2.0	15.1	14	155	41.2	82.4	9.70
PG012717	60	2.5	14.7	20	123	37.0	70.2	8.65
PG012719	55	2.0	17.1	18	177	42.0	80.0	9.85
PG012721	70	2.5	13.7	20	163	37.5	72.2	8.80
PG012723	60	2.0	15.2	20	172	41.7	81.6	9.75
Std Nominal	200	22.0	26.0	264				
Determined	200	22.0	24.7	266	39	14.2	39.7	5.50
PG012725	70	2.5	12.3	22	150	39.2	74.9	9.05
PG012727	60	2.5	15.4	20	164	42.3	79.4	9.85
PG012729	45	2.0	18.3	12	172	43.7	81.6	9.75
PG012731	45	2.0	16.8	16	171	41.8	84.0	9.95
PG012733	75	2.5	16.0	18	158	47.2	87.2	10.4
PG012735	50	2.0	14.5	16	171	44.5	84.1	10.0
PG012737	55	1.5	16.7	20	170	42.3	79.8	9.55
PG012739	65	2.5	16.5	26	153	41.5	79.8	9.65
PG012741	65	2.0	13.5	26	138	31.5	63.8	7.75
PG012743	65	2.5	28.9	26	130	52.4	93.7	11.4
PG012745	75	3.0	15.6	24	148	45.8	87.2	10.6
PG012747	55	2.5	14.6	20	170	36.7	71.9	8.60
PG012749	50	2.0	15.2	20	169	42.8	84.8	10.2
PG012751	50	2.5	14.3	20	168	37.0	71.6	8.60
PG012753	55	1.5	12.6	18	145	34.4	65.6	7.85
PG012753 Rpt	50	1.5	12.6	20	142	32.0	65.4	7.80
PG012755	50	2.5	13.5	18	170	42.4	80.6	9.75
PG012757	75	3.0	14.3	22	196	44.6	81.6	10.2
PG012759	45	2.0	14.5	14	165	43.2	83.2	9.95
PG012761	45	2.0	22.4	14	160	46.5	87.2	10.7
PG012763	50	2.0	15.0	20	167	36.8	71.4	8.60
PG012765	80	3.5	14.7	30	148	41.7	78.7	9.45



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Method	MA101	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	1	0.1	0.1	0.05
PG012767	50	2.5	12.9	20	146	36.7	71.2	8.60
PG012769	50	2.5	19.8	18	172	43.6	86.4	10.5
PG012771	85	3.5	17.1	22	134	48.3	93.6	11.2
Std Nominal	115		16.0	5190				
Determined	115	2.5	15.9	5010	85	9.9	19.4	2.60
PG012773	90	4.5	22.8	32	110	59.1	108	13.4
PG012775	85	4.0	24.3	34	112	50.4	95.3	11.7
PG012777	85	4.5	22.4	30	120	52.3	102	12.3
PG012779	90	5.0	20.2	30	124	55.9	108	13.1
PG012781	55	3.0	14.7	20	175	47.7	92.1	11.1
PG012783	40	1.5	13.0	12	158	40.8	76.6	8.95
BLANK 2	<5	<0.5	<0.1	<2	<1	<0.1	<0.1	<0.05
PG012785	45	2.0	15.1	18	147	36.5	71.6	8.75
PG012787	45	2.0	13.6	14	187	50.9	101	11.8
Std Nominal	20		10.1	14		20.3	44.5	5.20
Determined	25	<0.5	9.7	12	43	19.3	43.1	5.15
PG012789	40	1.5	15.5	14	153	39.9	75.2	9.10
PG012791	40	2.0	13.9	14	171	49.8	93.7	11.2
PG012793	45	1.5	12.6	12	172	42.1	80.2	9.30
PG012795	45	2.0	12.2	10	179	50.3	93.7	11.2
PG012797	40	1.5	13.7	14	185	51.1	96.1	11.2
PG012799	45	2.0	13.0	18	185	49.8	95.2	11.4
PG012801	45	1.5	12.8	14	210	45.5	87.2	10.4
PG012803	45	2.0	13.5	12	195	51.0	96.1	11.3
PG012805	75	4.0	12.8	18	127	36.8	70.0	8.55
PG012807	75	2.5	15.5	20	140	31.3	62.6	7.75
PG012809	75	3.0	19.8	26	125	49.6	91.3	11.3
PG012811	90	3.5	23.1	28	106	51.6	96.1	11.9
PG012811 Rpt	90	4.0	24.0	28	109	52.7	95.3	12.2
PG012813	90	3.5	23.6	32	120	51.8	96.1	12.0
PG012815	50	2.5	15.0	74	157	38.2	72.5	8.75
PG012817	80	3.0	18.9	34	112	43.6	81.6	10.1
PG012819	95	3.0	20.5	50	103	42.8	79.3	9.75
PG012821	80	3.0	19.3	44	132	41.9	80.8	9.85
PG012823	45	2.5	14.7	46	166	39.3	74.8	9.05
PG012825	80	4.0	18.6	36	111	41.1	76.7	9.45
PG012827	80	4.0	16.4	38	137	44.0	83.2	10.0
PG012829	135	2.0	18.0	36	97	22.8	46.5	5.75
PG012831	170	1.5	17.1	44	88	18.1	35.2	4.75
PG012833	125	1.5	14.5	34	73	14.2	28.6	3.95
PG012835	180	1.5	18.7	30	89	29.1	55.1	6.85



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Method	MA101	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	V	W	Y	Zn	Zr	La	Ce	Pr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	0.5	0.1	2	1	0.1	0.1	0.05
PG012837	150	1.0	14.9	44	80	18.3	37.7	4.85
PG012839	230	1.0	21.7	72	153	23.3	44.9	5.65
PG012841	255	1.0	24.3	72	157	25.4	48.3	5.95
PG012843	215	1.0	22.6	68	138	22.0	44.8	5.55
Std Nominal	135	3.5	21.0	120	82	28.0	54.0	7.20
Determined	140	4.5	22.4	116	76	29.3	58.0	7.15
PG012845	170	<0.5	16.8	52	104	27.9	51.5	6.55
PG012847	170	<0.5	17.1	62	99	33.1	60.4	7.70
PG012849	175	<0.5	17.4	56	118	28.8	54.2	6.80
PG012851	180	1.0	17.1	54	123	29.1	53.9	6.90
PG012853	180	1.0	16.5	60	111	28.6	53.9	6.75
PG012855	180	1.0	18.2	56	115	28.3	53.2	6.70
PG012857	215	1.0	22.0	82	142	22.0	44.8	5.60
PG012859	165	<0.5	18.2	72	126	23.9	45.9	5.60
PG012861	150	<0.5	16.4	60	111	19.3	37.4	4.60
PG012863	225	1.0	19.8	96	147	21.7	42.5	5.40
PG012865	375	<0.5	33.8	136	164	22.0	48.5	6.40
PG012867	355	<0.5	34.3	130	160	21.0	46.9	6.25
PG012869	370	1.0	37.7	138	144	24.8	53.4	7.10
PG012871	220	1.0	22.0	90	119	16.3	32.8	4.60
PG012873	45	<0.5	14.8	40	35	7.7	14.8	2.10
Std Nominal	120	3.5	24.6	88	77	33.0	68.0	7.90
Determined	125	4.5	25.1	94	82	33.1	65.0	8.00



Reference: aa041469.d Order Number: E0839 Page 19 of 25

Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
BLANK 1	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.02	<0.05
PG012695	35.9	6.80	1.05	6.0	0.74	4.25	0.82	2.50
PG012697	33.7	6.30	1.00	5.2	0.60	3.45	0.64	1.85
PG012697 Rpt	33.5	6.35	1.00	5.2	0.60	3.45	0.64	1.85
PG012699	35.3	6.30	1.05	5.2	0.62	3.45	0.66	2.00
PG012701	33.3	6.35	1.05	5.6	0.72	4.05	0.92	2.35
PG012703	45.0	8.00	1.45	6.4	0.78	3.85	0.74	2.10
PG012705	38.2	6.95	1.05	5.6	0.80	3.50	0.66	2.00
PG012707	38.1	6.85	1.20	5.8	0.68	3.70	0.70	2.25
PG012709	35.4	6.10	1.05	5.0	0.60	3.15	0.58	1.70
PG012711	33.2	5.95	0.95	4.8	0.60	3.30	0.66	1.90
PG012713	32.3	5.80	0.85	5.4	0.60	3.00	0.58	1.65
PG012715	35.4	6.35	1.05	5.2	0.60	3.10	0.58	1.75
PG012717	31.0	5.85	0.95	4.8	0.60	3.15	0.60	1.70
PG012719	34.3	6.30	1.05	5.2	0.64	3.45	0.78	1.90
PG012721	31.0	5.80	0.85	4.6	0.58	2.90	0.62	1.55
PG012723	34.5	6.30	1.00	5.0	0.60	3.25	0.60	2.10
Std Nominal								
Determined	22.6	5.40	1.75	6.2	0.88	5.15	1.02	3.00
PG012725	31.5	5.50	0.90	4.4	0.50	2.60	0.48	1.45
PG012727	35.0	6.15	0.95	5.0	0.60	3.75	0.58	1.80
PG012729	33.8	6.15	0.95	5.0	0.62	3.85	0.62	1.85
PG012731	35.5	6.55	1.05	5.6	0.64	3.70	0.70	2.00
PG012733	36.6	6.55	1.05	5.2	0.66	3.60	0.62	2.00
PG012735	34.4	6.25	1.00	5.0	0.60	3.10	0.54	1.55
PG012737	33.4	6.25	1.05	5.2	0.62	3.55	0.64	1.90
PG012739	34.4	6.30	1.05	5.2	0.60	3.35	0.62	1.85
PG012741	27.8	5.70	0.90	4.6	0.54	2.95	0.54	1.55
PG012743	39.7	7.20	1.35	6.8	0.78	4.30	0.82	2.45
PG012745	37.2	6.90	1.05	5.6	0.66	3.45	0.64	2.15
PG012747	30.9	5.65	1.00	4.8	0.54	3.25	0.58	1.65
PG012749	37.4	6.80	1.25	5.6	0.60	3.60	0.68	1.85
PG012751	30.1	5.65	1.00	4.4	0.60	3.35	0.64	1.55
PG012753	27.3	4.95	0.85	4.0	0.50	2.70	0.50	1.45
PG012753 Rpt	27.5	4.90	0.85	3.8	0.50	2.65	0.48	1.55
PG012755	34.0	6.05	0.95	4.6	0.54	2.80	0.50	1.45
PG012757	35.8	6.45	1.00	5.0	0.60	3.00	0.54	2.00
PG012759	34.6	6.25	1.15	4.8	0.58	3.75	0.56	1.65
PG012761	37.4	6.90	1.15	6.0	0.74	4.15	0.80	2.70
PG012763	31.6	5.80	1.05	4.8	0.56	2.95	0.56	1.65
PG012765	33.0	6.10	1.05	5.0	0.60	3.25	0.58	1.80



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
PG012767	30.6	5.40	0.85	4.2	0.52	2.85	0.52	1.50
PG012769	38.2	7.10	1.20	6.0	0.84	4.35	0.86	2.40
PG012771	40.6	7.55	1.30	6.2	0.68	4.00	0.72	2.00
Std Nominal								
Determined	10.7	2.90	1.05	3.4	0.50	3.20	0.80	1.90
PG012773	47.2	8.85	1.25	7.4	0.92	5.05	0.92	2.80
PG012775	41.4	7.95	1.10	6.8	0.88	5.00	0.94	3.00
PG012777	43.5	8.05	1.15	7.0	0.94	5.00	0.90	2.85
PG012779	45.5	8.50	1.15	7.0	0.88	4.80	0.82	2.50
PG012781	38.8	6.80	1.05	5.4	0.62	3.20	0.58	1.70
PG012783	31.2	5.45	0.85	4.2	0.52	2.65	0.48	1.45
BLANK 2	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.02	<0.05
PG012785	30.4	5.70	0.90	4.6	0.58	3.15	0.58	1.70
PG012787	41.8	7.35	1.15	5.8	0.64	3.55	0.62	1.80
Std Nominal	19.4	3.80		3.2	0.42		0.42	1.20
Determined	19.0	3.65	1.05	3.0	0.40	2.20	0.38	1.10
PG012789	32.4	5.80	0.90	4.8	0.60	3.30	0.60	1.80
PG012791	38.2	6.70	1.00	5.0	0.58	2.95	0.52	1.55
PG012793	32.3	5.55	0.90	4.4	0.54	2.70	0.48	1.45
PG012795	38.3	6.40	1.05	5.0	0.56	2.90	0.58	1.45
PG012797	39.4	6.85	1.05	5.2	0.62	3.15	0.56	1.60
PG012799	40.0	7.10	1.05	5.6	0.60	3.50	0.58	1.75
PG012801	36.1	6.35	0.95	5.2	0.60	3.30	0.56	1.70
PG012803	39.6	6.95	1.05	5.4	0.62	3.15	0.56	1.55
PG012805	29.7	5.35	0.80	4.2	0.54	2.75	0.50	1.55
PG012807	27.9	5.40	0.95	4.6	0.60	3.15	0.58	1.75
PG012809	40.3	7.50	1.30	6.2	0.82	4.25	0.80	2.25
PG012811	42.5	8.00	1.40	6.8	0.88	4.65	0.88	2.60
PG012811 Rpt	43.3	8.25	1.50	7.2	0.90	5.00	0.92	2.70
PG012813	43.8	8.15	1.40	6.8	0.88	4.95	0.90	2.70
PG012815	31.0	5.80	1.00	5.0	0.68	3.05	0.60	2.00
PG012817	36.4	6.75	1.10	5.6	0.74	4.55	0.72	2.15
PG012819	35.1	6.45	1.15	5.6	0.74	5.10	0.78	2.40
PG012821	35.8	6.90	1.15	5.8	0.76	4.10	0.76	2.15
PG012823	32.3	6.15	1.00	5.0	0.60	3.20	0.66	1.70
PG012825	34.4	6.70	1.10	5.8	0.72	3.95	0.74	2.10
PG012827	36.6	6.85	1.15	5.6	0.70	3.45	0.66	1.90
PG012829	21.8	4.65	0.95	4.6	0.66	3.65	0.70	2.10
PG012831	18.8	4.30	1.05	4.2	0.62	3.50	0.66	2.00
PG012833	15.7	3.70	0.80	3.6	0.54	3.00	0.58	1.95
PG012835	25.2	4.65	0.90	4.4	0.62	3.60	0.72	2.15



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Method	MA102	MA102	MA102	MA102	MA102	MA102	MA102	MA102
Result Name	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.05	0.05	0.05	0.2	0.02	0.05	0.02	0.05
PG012837	18.7	4.10	0.80	4.0	0.54	2.95	0.58	1.75
PG012839	23.2	5.25	1.50	5.4	0.82	5.00	0.92	2.95
PG012841	23.8	5.40	1.60	4.4	0.78	5.00	0.98	3.00
PG012843	22.6	5.25	1.60	5.4	0.76	4.20	1.06	2.75
Std Nominal	27.0	5.50	1.30	5.6		4.30	0.80	2.50
Determined	27.0	5.40	1.25	5.2	0.74	4.30	0.84	2.50
PG012845	25.1	5.15	1.25	5.0	0.64	3.50	0.68	2.05
PG012847	28.6	5.95	1.45	5.8	0.72	4.30	0.80	2.05
PG012849	25.5	5.10	1.20	4.8	0.64	3.60	0.70	2.15
PG012851	25.6	5.10	1.25	4.8	0.66	3.55	0.70	2.10
PG012853	25.5	5.05	1.25	4.6	0.64	3.70	0.68	2.05
PG012855	25.8	5.20	1.25	5.0	0.66	3.75	0.72	2.30
PG012857	22.3	4.95	1.30	5.4	0.76	3.95	0.80	2.45
PG012859	21.4	4.75	1.20	5.0	0.68	4.40	0.88	2.25
PG012861	17.9	4.00	1.05	4.2	0.58	3.25	0.64	2.00
PG012863	21.6	5.00	1.45	5.2	0.74	4.20	0.90	3.05
PG012865	27.2	6.65	2.20	8.0	1.18	7.15	1.44	4.30
PG012867	26.6	6.65	2.10	7.8	1.20	7.05	1.42	4.10
PG012869	30.4	7.30	2.45	8.6	1.36	7.95	1.62	4.55
PG012871	19.5	4.65	1.55	5.2	0.78	4.55	0.92	2.75
PG012873	9.00	2.40	1.00	3.0	0.48	2.65	0.54	1.45
Std Nominal	30.6	5.95	1.40	5.4	0.80	4.85	0.92	2.60
Determined	31.2	6.25	1.45	5.8	0.84	4.85	0.94	2.80



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Method	MA102	MA102	MA102	MA101	MA101
Result Name	Tm	Yb	Lu	MA_Run	MA_Seq
Units	ppm	ppm	ppm		
Detection Limit	0.05	0.05	0.02	1	1
BLANK 1	<0.05	<0.05	<0.02	201687	1
PG012695	0.35	2.20	0.30	201687	2
PG012697	0.30	1.80	0.28	201687	3
PG012697 Rpt	0.30	1.80	0.28	201687	4
PG012699	0.30	1.85	0.28	201687	5
PG012701	0.35	2.20	0.32	201687	6
PG012703	0.30	1.95	0.28	201687	7
PG012705	0.30	1.75	0.28	201687	8
PG012707	0.30	1.90	0.30	201687	9
PG012709	0.25	1.90	0.26	201687	10
PG012711	0.25	1.75	0.26	201687	11
PG012713	0.25	1.55	0.26	201687	12
PG012715	0.25	1.55	0.24	201687	13
PG012717	0.25	1.65	0.26	201687	14
PG012719	0.30	1.75	0.28	201687	15
PG012721	0.25	1.50	0.24	201687	16
PG012723	0.30	1.75	0.26	201687	17
Std Nominal					
Determined	0.45	2.55	0.38	201687	18
PG012725	0.20	1.45	0.22	201687	19
PG012727	0.30	1.65	0.26	201687	20
PG012729	0.30	1.80	0.28	201687	21
PG012731	0.30	1.90	0.28	201687	22
PG012733	0.30	1.80	0.28	201687	23
PG012735	0.25	1.50	0.24	201687	24
PG012737	0.30	1.75	0.30	201687	25
PG012739	0.30	1.85	0.28	201687	26
PG012741	0.25	1.85	0.24	201687	27
PG012743	0.40	2.20	0.32	201687	28
PG012745	0.30	1.85	0.28	201687	29
PG012747	0.25	1.55	0.24	201687	30
PG012749	0.25	1.70	0.26	201687	31
PG012751	0.25	1.50	0.24	201687	32
PG012753	0.20	1.30	0.22	201687	33
PG012753 Rpt	0.20	1.35	0.20	201687	34
PG012755	0.25	1.35	0.22	201687	35
PG012757	0.25	1.60	0.26	201687	36
PG012759	0.25	1.60	0.24	201687	37
PG012761	0.40	3.00	0.36	201687	38
PG012763	0.25	1.60	0.24	201687	39
PG012765	0.25	1.60	0.26	201687	40



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Method	MA102	MA102	MA102	MA101	MA101
Result Name	Tm	Yb	Lu	MA_Run	MA_Seq
Units	ppm	ppm	ppm		
Detection Limit	0.05	0.05	0.02	1	1
PG012767	0.25	1.35	0.22	201687	41
PG012769	0.35	2.30	0.36	201687	42
PG012771	0.30	1.90	0.28	201687	43
Std Nominal					
Determined	0.30	1.70	0.26	201687	44
PG012773	0.45	2.55	0.42	201687	45
PG012775	0.40	2.45	0.36	201687	46
PG012777	0.40	2.40	0.36	201687	47
PG012779	0.40	2.80	0.36	201687	48
PG012781	0.25	1.60	0.26	201687	49
PG012783	0.20	1.40	0.20	201687	50
BLANK 2	<0.05	<0.05	<0.02	201687	51
PG012785	0.25	1.60	0.26	201687	52
PG012787	0.25	1.75	0.24	201687	53
Std Nominal	0.15	1.05	0.16		
Determined	0.15	1.00	0.14	201687	54
PG012789	0.30	1.75	0.28	201687	55
PG012791	0.20	1.40	0.22	201687	56
PG012793	0.20	1.30	0.20	201687	57
PG012795	0.20	1.30	0.22	201687	58
PG012797	0.25	1.55	0.24	201687	59
PG012799	0.25	1.65	0.26	201687	60
PG012801	0.25	1.55	0.26	201687	61
PG012803	0.25	1.50	0.24	201687	62
PG012805	0.25	1.60	0.26	201687	63
PG012807	0.25	1.60	0.26	201687	64
PG012809	0.35	2.20	0.30	201687	65
PG012811	0.40	2.45	0.40	201687	66
PG012811 Rpt	0.40	2.65	0.40	201687	67
PG012813	0.40	2.50	0.42	201687	68
PG012815	0.25	1.50	0.24	201687	69
PG012817	0.35	2.15	0.34	201687	70
PG012819	0.35	2.20	0.34	201687	71
PG012821	0.35	2.15	0.30	201687	72
PG012823	0.25	1.60	0.26	201687	73
PG012825	0.35	2.20	0.30	201687	74
PG012827	0.30	1.90	0.28	201687	75
PG012829	0.35	2.10	0.30	201687	76
PG012831	0.30	2.20	0.30	201687	77
PG012833	0.25	1.60	0.24	201687	78
PG012835	0.35	2.00	0.30	201687	79



Reference: aa041469.d Order Number: E0839 Page 24 of 25

Method	MA102	MA102	MA102	MA101	MA101
Result Name	Tm	Yb	Lu	MA_Run	MA_Seq
Units	ppm	ppm	ppm		
Detection Limit	0.05	0.05	0.02	1	1
PG012837	0.25	1.70	0.26	201687	80
PG012839	0.45	3.05	0.44	201687	81
PG012841	0.45	2.95	0.46	201687	82
PG012843	0.40	2.60	0.42	201687	83
Std Nominal	0.40	2.30			
Determined	0.35	2.30	0.34	201687	84
PG012845	0.30	2.05	0.30	201687	85
PG012847	0.30	2.05	0.28	201687	86
PG012849	0.35	2.10	0.32	201687	87
PG012851	0.35	2.05	0.30	201687	88
PG012853	0.30	2.00	0.30	201687	89
PG012855	0.35	2.20	0.32	201687	90
PG012857	0.40	2.45	0.38	201687	91
PG012859	0.35	2.15	0.32	201687	92
PG012861	0.30	1.90	0.32	201687	93
PG012863	0.40	2.55	0.40	201687	94
PG012865	0.65	3.75	0.54	201687	95
PG012867	0.60	3.60	0.48	201687	96
PG012869	0.65	4.10	0.60	201687	97
PG012871	0.40	2.55	0.36	201687	98
PG012873	0.20	1.20	0.18	201687	99
Std Nominal	0.35	2.50	0.38		
Determined	0.40	2.55	0.36	201687	100



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These results pertain to the samples as received at this laboratory.
Where standards are reported, the nominal value for the element is reported above the result found.

"%" Implies this result reported in %

Sample Storage

The excess material (Residue) will be held after 30 days
The pulp samples (Pulp) will be held after 60 days as per instructions.

Sample Preparation

No sample preparation was required on these samples.

Digest and Analysis:

The sample(s) have been digested and refluxed with a mixture of Acids, including: Hydrofluoric, Nitric, Hydrochloric and Perchloric Acids. This extended digest approaches a total digest for many elements however, some refractory minerals are not completely attacked.

Al,Ba,Ca,Cr,Fe,K,Li,MA_Run,MA_Seq,Mg,Mn,Na,Ni,P,S,Sc,Ti,V
have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.
Ag,As,Be,Bi,Cd,Ce,Co,Cs,Cu,Dy,Er,Eu,Ga,Gd,Hf,Ho,In,La,Lu,Mo,Nb,Nd,Pb,Pr,Rb,Re,Sb,Se,Sm,Sn,Sr,Ta,Tb,Te,Th,Tl,Tm,U,W,Y,Yb,Zn,Zr
have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.