



**BUREAU
VERITAS**

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Reference: **aa041469.b**
Date Finished: 15/07/2019
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
PG012509	<0.2	6.27%	12	536	1.5	0.4	6900	<0.5
PG012511	<0.2	6.80%	14	936	1.5	0.5	2.20%	<0.5
PG012513	<0.2	5.50%	18	190	1.5	0.6	2.48%	<0.5
PG012515	0.4	9.62%	19	254	1.0	1.2	700	<0.5
PG012517	0.6	5.70%	34	540	2.0	1.6	1700	<0.5
PG012525	0.6	5.71%	46	182	1.0	0.9	600	<0.5
PG012527	2.0	4.93%	39	226	1.0	0.6	600	<0.5
PG012529	0.6	7.10%	40	174	1.5	0.2	600	<0.5
PG012531	<0.2	9.71%	4	954	1.0	0.1	600	<0.5
PG012533	0.4	8.65%	17	212	1.0	0.1	700	<0.5
PG012535	0.4	11.1%	<1	992	1.0	<0.1	500	<0.5
PG012537	<0.2	11.7%	4	186	1.0	0.2	400	<0.5
PG012539	<0.2	12.0%	6	96	1.0	<0.1	400	<0.5
PG012541	<0.2	12.3%	8	110	1.0	0.2	500	<0.5
PG012543	<0.2	10.7%	27	128	3.0	0.2	500	<0.5
PG012545	<0.2	11.2%	32	64	2.0	0.2	500	<0.5
PG012547	<0.2	11.2%	32	182	3.5	0.1	500	<0.5
PG012549	<0.2	8.26%	21	166	5.0	0.1	500	<0.5
PG012551	<0.2	8.04%	7	414	4.0	<0.1	300	<0.5
PG012553	<0.2	8.05%	5	396	4.5	<0.1	300	<0.5
PG012555	<0.2	6.87%	5	312	3.5	0.1	300	<0.5
PG012555 Rpt	<0.2	6.74%	5	304	3.5	0.1	300	<0.5
PG012557	<0.2	7.67%	13	318	9.0	0.2	300	<0.5
PG012559	<0.2	6.87%	5	308	4.5	<0.1	300	<0.5
PG012561	<0.2	7.66%	6	318	4.5	<0.1	400	<0.5
PG012563	<0.2	7.00%	17	280	4.0	<0.1	400	<0.5
Std Nominal	0.4	6.16%	749	142			2.79%	
Determined	0.4	6.13%	748	140	2.0	0.5	2.79%	1.0
PG012565	<0.2	8.36%	18	410	3.5	0.2	1100	<0.5
PG012567	<0.2	7.75%	21	328	3.0	0.2	1200	<0.5
PG012567 Rpt	<0.2	7.60%	20	326	3.0	0.2	1200	<0.5
PG012569	<0.2	10.2%	27	484	4.0	1.2	1100	<0.5
PG012571	<0.2	7.83%	56	242	3.5	0.3	1700	<0.5
PG012573	<0.2	8.24%	105	154	2.5	0.2	2000	<0.5
PG012575	<0.2	7.79%	646	208	2.5	1.0	1000	<0.5
PG012577	0.4	7.61%	742	382	4.5	3.9	600	<0.5
PG012579	0.2	6.21%	20	290	2.5	0.3	1600	<0.5
PG012581	<0.2	6.38%	22	422	2.5	0.2	1300	<0.5
PG012583	<0.2	10.6%	31	648	5.0	0.3	1300	<0.5
PG012585	<0.2	6.92%	9	536	2.5	0.1	1600	<0.5



Reference: aa041469.b 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
PG012587	<0.2	6.27%	10	376	3.0	0.2	1700	<0.5
PG012589	<0.2	6.45%	9	372	2.5	0.2	1400	<0.5
PG012591	<0.2	6.38%	7	342	2.5	0.3	1400	<0.5
PG012593	<0.2	6.24%	6	276	2.0	0.3	1400	<0.5
Std Nominal	6.0	6.83%	96	132		3.5	2.48%	8.0
Determined	5.8	6.86%	99	134	1.0	3.4	2.48%	9.0
PG012595	<0.2	8.81%	15	556	4.5	0.5	1300	<0.5
PG012597	<0.2	8.05%	12	560	4.0	0.5	1400	<0.5
PG012599	<0.2	6.77%	5	592	2.5	0.2	1700	<0.5
PG012601	<0.2	6.58%	8	582	2.5	0.2	1400	<0.5
PG012603	<0.2	6.01%	5	494	2.5	0.1	1400	<0.5
BLANK 2	<0.2	<100	<1	<2	<0.5	<0.1	<100	<0.5
PG012605	<0.2	7.40%	13	442	3.0	0.2	1300	<0.5
PG012607	<0.2	6.81%	9	472	2.5	0.1	1300	<0.5
PG012609	<0.2	6.26%	3	324	3.0	0.2	1300	<0.5
PG012611	<0.2	6.22%	4	356	2.5	0.4	1200	<0.5
PG012613	<0.2	6.12%	9	326	3.0	0.6	1200	<0.5
PG012615	<0.2	7.83%	9	510	4.0	0.5	1200	<0.5
PG012617	<0.2	8.18%	3	460	4.5	0.3	1200	<0.5
PG012619	<0.2	6.57%	4	356	3.0	0.2	1200	<0.5
PG012619 Rpt	<0.2	6.79%	5	366	3.0	0.2	1300	<0.5
PG012621	<0.2	5.69%	3	306	2.5	0.2	1400	<0.5
PG012623	<0.2	6.38%	4	344	2.5	0.2	1300	<0.5
PG012625	<0.2	7.23%	8	566	3.5	0.2	1300	<0.5
PG012627	<0.2	7.24%	8	612	3.5	0.1	1300	<0.5
PG012629	<0.2	9.22%	17	444	5.5	1.2	1200	<0.5
PG012631	<0.2	9.66%	7	522	5.5	0.3	1400	<0.5
PG012633	<0.2	10.1%	8	618	6.0	0.4	1200	<0.5
PG012635	<0.2	8.04%	3	404	3.5	0.2	1500	<0.5
PG012637	<0.2	9.49%	5	534	5.5	0.3	1300	<0.5
PG012639	<0.2	10.9%	11	636	6.5	0.2	1300	<0.5
PG012641	<0.2	9.13%	6	582	5.0	0.4	1500	<0.5
PG012643	<0.2	10.9%	13	638	6.5	0.6	1200	<0.5
PG012645	<0.2	5.20%	10	416	1.5	2.0	8900	<0.5
Std Nominal		4.63%	3	984	1.5	<0.1	600	<0.5
Determined	<0.2	4.58%	2	956	1.5	<0.1	600	<0.5
PG012647	<0.2	6.19%	7	506	2.0	0.6	3200	<0.5
PG012649	<0.2	7.51%	11	572	3.0	0.4	3700	<0.5
PG012651	<0.2	9.95%	15	508	4.5	1.3	3700	<0.5
PG012653	<0.2	8.46%	34	240	4.0	0.5	1.36%	<0.5
PG012655	0.6	6.74%	13	24	2.0	0.3	1.08%	<0.5



Reference: aa041469.b 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
PG012657	<0.2	7.07%	9	184	3.5	0.8	1500	<0.5
PG012659	<0.2	10.1%	3	538	4.5	0.3	1500	<0.5
PG012661	<0.2	6.62%	4	304	3.5	0.2	1.29%	<0.5
PG012663	<0.2	10.7%	14	560	6.5	0.6	3100	<0.5
PG012665	<0.2	6.98%	12	420	3.0	0.3	4700	<0.5
PG012667	<0.2	6.66%	16	348	3.5	0.3	7200	<0.5
Std Nominal	1.8	7.90%	21	922	3.0	4.3	3.00%	1.0
Determined	2.2	7.74%	23	922	3.0	4.5	2.97%	<0.5
PG012669	<0.2	7.57%	8	506	3.5	0.3	7100	<0.5
PG012671	<0.2	5.29%	7	440	3.0	0.2	7600	<0.5
PG012673	<0.2	5.82%	4	380	2.5	0.2	5400	<0.5
PG012675	<0.2	6.75%	5	310	3.0	0.2	8700	<0.5
PG012677	<0.2	6.26%	3	526	2.5	0.1	3900	<0.5
PG012679	<0.2	5.88%	4	390	2.5	0.2	1.45%	<0.5
PG012681	<0.2	6.38%	2	472	3.0	0.1	3000	<0.5
PG012683	<0.2	6.19%	3	484	2.5	0.1	3800	<0.5
PG012685	<0.2	6.31%	2	566	2.5	0.2	2900	<0.5
PG012687	<0.2	7.32%	6	528	3.5	0.3	4700	<0.5
PG012689	0.8	5.90%	3	280	3.0	0.3	1600	<0.5
PG012691	<0.2	5.70%	14	306	3.0	0.8	5400	<0.5
PG012693	<0.2	7.99%	14	444	4.0	0.3	2600	<0.5
Std Nominal	0.8	7.68%	18	1010	3.0	1.5	2.71%	<0.5
Determined	0.8	7.92%	15	1040	4.0	1.5	2.74%	<0.5



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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
PG012509	12	70	3.9	44	5.97%	18.2	2.0	<0.05
PG012511	7	70	4.1	52	5.66%	19.4	2.2	<0.05
PG012513	4	110	2.6	31	7.56%	15.4	2.2	0.05
PG012515	6	190	4.3	46	11.5%	28.6	4.4	0.05
PG012517	25	270	2.1	48	15.2%	20.4	3.4	0.10
PG012525	7	380	1.9	46	22.4%	26.8	3.8	0.05
PG012527	6	480	1.4	37	25.3%	24.6	3.4	0.05
PG012529	11	510	2.0	50	21.8%	25.4	3.4	0.05
PG012531	3	130	0.7	18	1.20%	25.6	3.4	0.05
PG012533	4	230	0.8	24	3.11%	28.8	4.4	<0.05
PG012535	3	130	0.5	14	3600	27.8	3.6	<0.05
PG012537	3	150	0.6	23	1.20%	27.4	3.4	0.05
PG012539	4	130	0.5	32	9900	29.4	4.0	0.05
PG012541	5	130	0.5	40	1.20%	30.8	4.2	0.05
PG012543	14	250	0.6	68	6.65%	27.2	4.4	0.05
PG012545	16	270	0.4	61	7.07%	29.0	3.8	0.05
PG012547	48	170	0.6	79	8.80%	29.8	5.2	0.10
PG012549	181	210	21.5	88	8.85%	23.8	4.4	<0.05
PG012551	76	50	6.1	36	3.33%	21.2	4.4	<0.05
PG012553	28	50	4.3	26	2.45%	21.8	5.4	<0.05
PG012555	45	40	3.6	22	2.08%	18.8	4.8	<0.05
PG012555 Rpt	46	40	3.6	22	2.04%	19.2	4.4	<0.05
PG012557	68	50	5.0	59	4.28%	20.8	5.2	<0.05
PG012559	19	40	4.4	21	2.56%	18.6	4.2	<0.05
PG012561	5	50	5.0	16	2.50%	22.0	5.2	<0.05
PG012563	13	50	3.6	7	2.99%	16.4	4.2	<0.05
Std Nominal	160	2060		120	9.79%			
Determined	163	2110	2.2	120	9.75%	14.6	1.4	0.05
PG012565	19	50	4.1	55	2.74%	22.4	4.4	<0.05
PG012567	9	50	5.3	24	2.94%	20.4	4.4	<0.05
PG012567 Rpt	9	50	5.1	26	2.87%	20.6	4.4	<0.05
PG012569	10	50	7.3	16	3.08%	29.8	4.4	<0.05
PG012571	24	130	3.6	7	5.81%	24.2	3.4	<0.05
PG012573	26	250	2.4	9	8.67%	22.6	2.8	<0.05
PG012575	33	230	2.2	21	9.08%	21.4	2.6	0.05
PG012577	21	110	4.7	60	6.52%	20.8	3.8	0.05
PG012579	7	50	2.8	10	2.73%	18.6	7.0	<0.05
PG012581	9	40	3.6	7	2.32%	18.2	4.6	<0.05
PG012583	11	70	10.1	39	3.70%	31.0	3.2	<0.05
PG012585	8	50	3.9	18	2.46%	18.2	4.6	<0.05



Reference: aa041469.b 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
PG012587	11	40	3.1	15	2.72%	16.8	5.4	<0.05
PG012589	7	40	3.8	7	2.27%	17.6	5.6	<0.05
PG012591	6	40	3.5	11	2.26%	16.8	5.4	<0.05
PG012593	6	40	3.0	12	1.96%	16.4	5.6	<0.05
Std Nominal	43	220		1520	8.65%			
Determined	42	210	15.7	1520	8.69%	20.8	2.4	0.55
PG012595	15	70	8.0	22	4.01%	26.8	3.8	<0.05
PG012597	12	50	6.3	21	3.43%	22.6	4.2	<0.05
PG012599	8	40	4.3	21	1.89%	18.2	4.4	<0.05
PG012601	11	40	4.7	14	2.34%	17.6	5.2	<0.05
PG012603	9	40	3.8	23	2.07%	15.0	4.2	<0.05
BLANK 2	<1	<10	<0.1	<1	<100	<0.2	<0.2	<0.05
PG012605	14	50	5.6	16	2.91%	21.6	5.4	<0.05
PG012607	11	40	4.1	20	2.92%	19.2	5.4	<0.05
PG012609	12	40	3.7	27	2.61%	19.0	5.4	<0.05
PG012611	9	40	3.2	40	2.38%	16.8	4.8	<0.05
PG012613	10	50	3.8	26	2.20%	18.0	2.8	<0.05
PG012615	10	50	7.0	17	3.00%	25.2	4.2	<0.05
PG012617	15	50	6.0	38	3.67%	27.2	4.4	<0.05
PG012619	8	40	3.8	21	2.68%	19.6	4.6	<0.05
PG012619 Rpt	8	40	3.9	22	2.78%	19.6	4.6	<0.05
PG012621	6	40	2.9	21	1.98%	14.6	5.2	<0.05
PG012623	6	40	3.7	26	2.17%	16.8	6.0	<0.05
PG012625	7	40	4.9	12	2.61%	22.4	5.0	<0.05
PG012627	9	50	5.1	8	2.80%	22.2	5.0	<0.05
PG012629	18	70	6.4	28	4.61%	29.6	3.6	0.05
PG012631	12	70	7.1	20	4.12%	30.6	3.8	<0.05
PG012633	13	70	8.4	3	4.10%	34.6	3.4	<0.05
PG012635	11	50	5.3	27	3.75%	24.0	5.0	<0.05
PG012637	13	50	7.4	20	4.24%	30.8	4.4	<0.05
PG012639	15	70	8.3	13	4.50%	37.8	4.0	0.05
PG012641	11	50	5.2	10	3.92%	30.6	4.4	<0.05
PG012643	15	70	8.1	21	3.90%	39.0	3.6	0.05
PG012645	16	40	1.1	38	2.69%	11.4	4.4	<0.05
Std Nominal	4	30	0.7	3	1.57%	11.0	1.6	<0.05
Determined	4	40	0.7	4	1.57%	11.4	1.6	<0.05
PG012647	6	40	2.5	6	2.64%	18.0	4.8	<0.05
PG012649	11	50	3.3	10	3.51%	21.6	4.8	<0.05
PG012651	12	50	5.2	15	4.46%	30.8	3.2	<0.05
PG012653	26	130	4.4	33	6.43%	27.0	3.0	<0.05
PG012655	37	210	2.5	31	8.06%	20.0	2.4	<0.05



Reference: aa041469.b 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
PG012657	22	50	2.3	51	3.15%	20.4	4.8	<0.05
PG012659	11	70	7.5	19	4.12%	32.2	3.4	<0.05
PG012661	10	50	3.5	14	3.05%	19.4	4.4	<0.05
PG012663	16	70	9.1	28	4.34%	37.0	3.2	0.05
PG012665	11	40	4.2	17	2.91%	18.8	4.6	<0.05
PG012667	14	50	4.0	24	3.38%	18.6	4.2	<0.05
Std Nominal	16	90	9.6	7550	5.80%	23.0	2.0	0.60
Determined	17	100	9.8	7800	5.67%	22.6	2.0	0.65
PG012669	11	50	5.0	20	3.38%	22.2	4.2	<0.05
PG012671	6	40	3.4	13	2.36%	16.4	3.2	<0.05
PG012673	6	40	2.9	13	2.27%	16.6	4.8	<0.05
PG012675	8	50	3.7	12	3.10%	19.4	4.6	<0.05
PG012677	8	40	3.5	16	2.66%	16.8	5.4	<0.05
PG012679	6	40	3.3	9	2.45%	16.2	4.8	<0.05
PG012681	6	40	3.6	6	2.34%	18.8	5.4	<0.05
PG012683	6	40	4.0	11	2.52%	17.6	6.4	<0.05
PG012685	6	50	3.9	7	2.66%	17.0	4.8	<0.05
PG012687	9	50	5.7	13	3.29%	21.8	4.0	<0.05
PG012689	5	50	3.0	9	2.43%	16.8	3.2	<0.05
PG012691	8	40	2.8	19	2.76%	16.4	3.8	<0.05
PG012693	12	50	5.6	28	3.10%	22.6	5.4	<0.05
Std Nominal	16	90	12.2	2600	4.54%	19.6	2.6	0.20
Determined	17	100	11.9	2640	4.63%	19.8	2.4	0.20



Reference: aa041469.b Order Number: E0839 Page 7 of 25

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
PG012509	1.14%	20	5900	724	1.5	1100	7.0	24
PG012511	1.45%	20	9400	608	1.5	1800	8.0	20
PG012513	8400	20	1.75%	128	1.5	1500	6.5	14
PG012515	6100	30	3800	272	3.0	2200	13.5	30
PG012517	5700	20	2500	144	3.0	1400	6.5	26
PG012525	4600	10	4700	66	2.0	2600	9.5	20
PG012527	4800	10	2600	78	2.0	1700	10.5	12
PG012529	7900	10	4000	112	4.5	2300	11.5	20
PG012531	3400	10	5300	36	<0.5	3800	12.0	10
PG012533	3400	20	6300	54	1.0	4100	14.5	10
PG012535	3400	20	2800	24	<0.5	2600	13.0	8
PG012537	5300	20	2000	36	<0.5	2300	11.5	8
PG012539	3900	20	2400	36	<0.5	2600	13.0	10
PG012541	3900	20	2000	40	<0.5	3100	13.5	10
PG012543	4900	10	1800	622	1.5	2200	13.0	34
PG012545	2600	30	1400	640	1.0	2800	13.0	16
PG012547	3900	20	1400	2550	1.5	3100	16.0	30
PG012549	1.28%	30	6200	2420	1.5	3300	12.0	136
PG012551	3.21%	10	4600	722	1.0	1700	11.5	52
PG012553	3.18%	<10	4100	344	1.5	1700	12.5	32
PG012555	2.79%	<10	3800	390	1.5	1400	11.5	32
PG012555 Rpt	2.72%	<10	3700	384	1.5	1400	11.5	32
PG012557	3.07%	10	4400	654	1.0	1700	12.5	70
PG012559	2.85%	<10	4900	220	1.0	2000	10.0	42
PG012561	3.20%	<10	5400	106	1.0	2000	12.0	34
PG012563	2.32%	<10	4900	234	<0.5	3000	9.0	34
Std Nominal	5600		6.85%	2380		6300		1180
Determined	5500	10	6.94%	2370	1.0	6200	2.0	1220
PG012565	3.53%	20	8100	694	1.0	2300	11.5	62
PG012567	3.25%	10	7200	88	1.0	2300	10.0	48
PG012567 Rpt	3.18%	10	7100	86	1.0	2300	10.5	48
PG012569	4.55%	10	8400	68	1.0	2100	16.0	44
PG012571	2.63%	30	1.45%	110	<0.5	3300	12.0	112
PG012573	2.00%	30	1.55%	208	<0.5	4600	9.5	84
PG012575	2.22%	10	8400	408	1.5	4400	9.0	34
PG012577	3.04%	<10	6500	326	1.0	2800	11.0	28
PG012579	2.33%	<10	4500	70	1.0	1.00%	11.5	26
PG012581	2.78%	<10	4300	336	1.0	4400	9.0	14
PG012583	5.16%	10	1.06%	74	<0.5	2800	13.5	58
PG012585	3.44%	<10	5100	68	<0.5	8100	10.5	24



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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
PG012587	2.73%	<10	3900	304	1.0	8700	9.0	16
PG012589	2.83%	<10	4600	96	<0.5	8100	11.0	20
PG012591	2.88%	<10	5000	100	1.5	5500	9.5	20
PG012593	2.63%	<10	5500	70	<0.5	4000	10.0	16
Std Nominal	2.35%		1.77%	1180	54.0	1.30%		74
Determined	2.40%	10	1.75%	1180	55.5	1.32%	4.0	72
PG012595	4.24%	20	1.10%	94	<0.5	3300	13.5	32
PG012597	3.96%	10	8600	78	<0.5	3700	11.5	30
PG012599	3.53%	<10	5500	60	<0.5	5900	9.0	18
PG012601	3.43%	<10	5400	100	1.5	6100	10.0	22
PG012603	3.18%	<10	6500	90	<0.5	6200	8.5	18
BLANK 2	<100	<10	<100	<2	<0.5	<100	<0.5	<2
PG012605	3.26%	10	1.08%	100	<0.5	5400	13.5	32
PG012607	3.08%	10	1.07%	112	1.0	7400	11.0	28
PG012609	2.55%	20	1.10%	104	<0.5	5100	11.5	22
PG012611	2.66%	20	1.25%	90	1.0	3600	10.0	20
PG012613	2.90%	20	1.02%	94	1.0	2200	9.0	20
PG012615	3.59%	10	1.12%	100	<0.5	4200	13.5	30
PG012617	3.47%	20	1.54%	122	<0.5	4100	13.5	34
PG012619	2.60%	10	1.01%	122	<0.5	7800	11.0	24
PG012619 Rpt	2.73%	10	1.05%	124	<0.5	8000	10.5	28
PG012621	2.32%	10	9100	86	<0.5	6100	9.0	18
PG012623	2.72%	10	1.04%	80	1.0	5300	11.0	20
PG012625	3.57%	10	8900	100	<0.5	6300	11.5	22
PG012627	3.53%	10	8700	128	1.0	8000	12.0	28
PG012629	3.85%	30	1.95%	158	1.0	1300	13.5	40
PG012631	4.07%	20	1.64%	150	<0.5	3000	14.5	36
PG012633	4.56%	20	1.75%	156	<0.5	1800	15.5	38
PG012635	3.20%	20	1.70%	146	<0.5	2100	13.5	34
PG012637	4.07%	20	2.02%	184	<0.5	1100	15.5	38
PG012639	4.81%	20	1.69%	190	<0.5	1400	17.5	44
PG012641	3.86%	20	1.38%	190	1.0	6700	14.5	36
PG012643	5.14%	20	1.47%	152	<0.5	1000	17.5	40
PG012645	1.52%	10	1.07%	462	<0.5	2.11%	9.0	18
Std Nominal	2.59%	<10	2300	780	7.0	2300	7.5	8
Determined	2.53%	<10	2300	748	6.5	2300	7.5	10
PG012647	2.70%	<10	7400	234	1.0	1.12%	9.5	20
PG012649	3.03%	10	1.10%	320	1.0	1.20%	12.5	28
PG012651	4.29%	20	1.65%	308	<0.5	2700	14.5	34
PG012653	2.66%	30	3.52%	1450	<0.5	4500	13.5	32
PG012655	6100	60	7.28%	794	<0.5	500	9.5	18



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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
PG012657	2.59%	30	2.82%	100	<0.5	700	11.0	22
PG012659	4.33%	20	1.90%	172	1.0	3000	14.0	46
PG012661	2.60%	20	1.71%	400	1.0	6200	11.0	28
PG012663	4.82%	20	1.70%	174	<0.5	1800	16.5	44
PG012665	2.88%	10	9400	190	1.0	8700	10.5	24
PG012667	2.69%	10	1.06%	302	1.5	6800	10.5	32
Std Nominal	3.10%	30	1.70%	600	274		16.0	50
Determined	3.09%	30	1.62%	584	274	2.08%	16.0	44
PG012669	3.26%	10	1.31%	328	1.5	6400	11.0	34
PG012671	2.70%	<10	8500	314	1.5	9300	9.0	18
PG012673	2.61%	<10	8200	216	1.5	9400	10.0	18
PG012675	2.55%	10	1.26%	430	1.5	9500	11.5	30
PG012677	2.83%	<10	7900	204	1.0	1.12%	10.0	20
PG012679	2.72%	<10	1.10%	586	1.0	9400	9.0	20
PG012681	2.63%	<10	7400	164	1.0	1.56%	11.5	18
PG012683	2.92%	10	9700	196	1.0	9000	11.0	18
PG012685	2.95%	<10	8000	178	1.5	1.11%	9.5	20
PG012687	3.30%	10	1.34%	216	<0.5	8300	12.0	28
PG012689	2.70%	20	1.70%	104	1.0	5000	9.0	22
PG012691	2.49%	20	1.32%	250	1.0	7200	9.0	20
PG012693	3.62%	20	1.18%	146	<0.5	6300	13.5	30
Std Nominal	3.14%	30	1.48%	546	99.0	2.08%	18.0	42
Determined	3.23%	40	1.55%	556	101	2.04%	18.0	40



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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
PG012509	150	21	81.8	<0.1	300	0.7	11	<5
PG012511	250	16	85.2	<0.1	500	1.0	11	<5
PG012513	300	13	49.0	<0.1	200	1.3	10	<5
PG012515	200	18	47.8	<0.1	300	2.8	20	<5
PG012517	150	22	36.2	<0.1	250	3.8	20	<5
PG012525	150	10	35.4	<0.1	800	1.9	27	<5
PG012527	150	8	30.8	<0.1	850	1.3	27	<5
PG012529	250	6	45.0	<0.1	650	1.5	33	<5
PG012531	150	8	15.4	<0.1	1050	1.0	48	<5
PG012533	100	8	16.4	<0.1	800	1.1	45	<5
PG012535	150	8	17.4	<0.1	800	0.7	38	<5
PG012537	200	8	24.8	<0.1	650	0.7	48	<5
PG012539	200	5	17.6	<0.1	650	0.7	48	<5
PG012541	250	5	18.0	<0.1	850	0.7	49	<5
PG012543	500	4	25.2	<0.1	800	0.7	49	<5
PG012545	200	3	11.6	<0.1	750	0.7	52	<5
PG012547	350	3	17.8	<0.1	850	1.4	54	<5
PG012549	600	2	308	<0.1	650	1.0	36	<5
PG012551	450	3	206	<0.1	350	1.1	13	<5
PG012553	300	2	197	<0.1	400	1.1	13	<5
PG012555	200	2	185	<0.1	300	1.1	10	<5
PG012555 Rpt	200	2	185	<0.1	300	1.1	10	<5
PG012557	800	3	168	<0.1	400	1.1	12	<5
PG012559	200	3	196	<0.1	300	0.9	10	<5
PG012561	150	3	229	<0.1	300	1.0	11	<5
PG012563	200	4	158	<0.1	500	0.5	9	<5
Std Nominal	100	39			600	4.0	33	
Determined	100	41	24.2	<0.1	550	4.2	33	<5
PG012565	550	2	213	<0.1	300	1.0	14	<5
PG012567	650	4	195	<0.1	250	0.9	11	<5
PG012567 Rpt	600	4	196	<0.1	250	0.8	11	<5
PG012569	650	4	284	<0.1	250	1.2	17	<5
PG012571	900	3	200	<0.1	300	0.9	25	<5
PG012573	1250	3	171	<0.1	500	0.6	39	<5
PG012575	1050	3	165	<0.1	750	1.1	39	<5
PG012577	750	6	186	<0.1	400	5.3	17	<5
PG012579	650	5	127	<0.1	150	1.0	8	<5
PG012581	600	4	165	<0.1	200	0.8	8	<5
PG012583	650	4	345	<0.1	150	1.8	18	<5
PG012585	700	7	190	<0.1	100	0.7	9	<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
PG012587	700	4	159	<0.1	200	0.8	8	<5
PG012589	650	5	163	<0.1	100	0.8	9	<5
PG012591	600	4	166	<0.1	100	0.7	8	<5
PG012593	600	3	145	<0.1	100	0.7	8	<5
Std Nominal	600	521	561		2.01%	12.0	15	
Determined	650	529	562	<0.1	2.01%	11.4	16	<5
PG012595	650	5	276	<0.1	200	1.5	14	<5
PG012597	700	7	231	<0.1	150	1.2	12	<5
PG012599	700	8	186	<0.1	200	0.7	9	<5
PG012601	650	8	181	<0.1	150	0.7	8	<5
PG012603	600	7	157	<0.1	250	0.7	8	<5
BLANK 2	<50	<1	<0.2	<0.1	<50	<0.1	<1	<5
PG012605	600	8	198	<0.1	<50	1.3	12	<5
PG012607	600	7	167	<0.1	<50	1.1	10	<5
PG012609	600	5	148	<0.1	100	0.8	9	<5
PG012611	550	5	129	<0.1	<50	0.7	8	<5
PG012613	500	5	152	<0.1	100	0.8	9	<5
PG012615	550	7	224	<0.1	100	1.1	13	<5
PG012617	500	6	220	<0.1	100	1.0	14	<5
PG012619	500	5	154	<0.1	100	0.7	10	<5
PG012619 Rpt	500	5	153	<0.1	<50	0.7	10	<5
PG012621	600	4	122	<0.1	100	0.7	7	<5
PG012623	600	5	156	<0.1	<50	0.9	9	<5
PG012625	550	6	193	<0.1	<50	0.8	11	<5
PG012627	550	7	187	<0.1	<50	0.8	11	<5
PG012629	550	3	239	<0.1	100	1.2	16	<5
PG012631	600	3	251	<0.1	100	1.0	17	<5
PG012633	550	3	292	<0.1	150	1.1	18	<5
PG012635	650	3	186	<0.1	<50	0.7	14	<5
PG012637	600	3	256	<0.1	<50	0.9	17	<5
PG012639	600	5	311	<0.1	<50	1.0	20	<5
PG012641	550	5	236	<0.1	<50	0.8	15	<5
PG012643	600	4	331	<0.1	100	1.2	19	<5
PG012645	450	5	52.8	<0.1	<50	0.4	7	<5
Std Nominal	100	18	88.0	<0.1	<50	<0.1	3	<5
Determined	150	16	87.4	<0.1	<50	<0.1	3	<5
PG012647	500	5	130	<0.1	<50	0.5	8	<5
PG012649	500	5	157	<0.1	150	0.7	11	<5
PG012651	500	3	242	<0.1	<50	1.0	17	<5
PG012653	600	4	143	<0.1	<50	0.9	28	<5
PG012655	600	3	26.0	<0.1	150	0.7	34	<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
PG012657	600	3	143	<0.1	550	1.0	14	<5
PG012659	500	3	266	<0.1	100	1.2	18	<5
PG012661	500	3	148	<0.1	<50	0.7	11	<5
PG012663	500	4	323	<0.1	250	1.6	19	<5
PG012665	500	5	156	<0.1	450	0.8	11	<5
PG012667	500	4	150	<0.1	250	0.8	11	<5
Std Nominal	1000	29	145		9250	0.9	14	5
Determined	1000	26	147	<0.1	9450	0.9	15	5
PG012669	450	5	184	<0.1	<50	0.7	12	<5
PG012671	450	6	156	<0.1	<50	0.6	8	<5
PG012673	500	5	139	<0.1	<50	0.6	8	<5
PG012675	500	5	148	<0.1	<50	0.7	10	<5
PG012677	550	8	146	<0.1	100	0.6	8	<5
PG012679	500	6	143	<0.1	<50	0.7	8	<5
PG012681	550	8	150	<0.1	150	0.7	9	<5
PG012683	550	9	167	<0.1	100	0.8	8	<5
PG012685	500	8	151	<0.1	100	0.7	9	<5
PG012687	500	7	190	<0.1	<50	0.7	12	<5
PG012689	450	5	139	<0.1	150	0.7	9	<5
PG012691	500	5	130	<0.1	950	0.7	9	<5
PG012693	550	7	219	<0.1	250	1.4	12	<5
Std Nominal	1000	23	184	<0.1	3550	0.9	13	<5
Determined	1000	22	191	<0.1	3500	0.9	15	<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	<50	<0.1	<0.1
PG012509	3.6	125	0.7	<0.2	10.8	2750	0.5	2.3
PG012511	4.3	59.0	0.8	<0.2	14.0	2800	0.5	2.2
PG012513	3.1	89.0	0.6	0.2	15.0	2500	0.3	2.6
PG012515	4.9	29.5	1.1	0.4	31.7	5050	0.5	3.6
PG012517	3.5	27.5	0.6	0.6	32.2	2550	0.6	4.0
PG012525	2.8	29.5	0.7	0.2	15.1	7050	0.2	3.0
PG012527	2.2	33.5	0.7	<0.2	10.6	9350	0.2	2.2
PG012529	1.8	25.0	0.8	<0.2	9.8	9800	0.2	2.3
PG012531	1.7	115	0.7	<0.2	5.4	1.22%	<0.1	1.3
PG012533	1.8	49.5	0.9	<0.2	6.3	1.43%	<0.1	1.7
PG012535	2.0	59.5	0.8	<0.2	3.9	1.15%	<0.1	1.4
PG012537	2.0	100	0.8	<0.2	4.0	1.22%	0.1	1.3
PG012539	2.8	72.5	0.9	<0.2	4.4	1.38%	<0.1	1.5
PG012541	2.9	97.0	0.9	<0.2	5.0	1.38%	<0.1	1.5
PG012543	1.7	82.5	0.8	<0.2	5.3	1.10%	0.3	3.8
PG012545	1.6	32.5	0.8	<0.2	5.5	1.26%	0.1	2.3
PG012547	2.1	25.5	1.1	<0.2	6.2	1.36%	0.3	4.8
PG012549	2.4	25.5	0.9	<0.2	8.8	8600	0.3	7.0
PG012551	4.4	19.5	1.1	<0.2	22.4	3250	0.7	5.3
PG012553	4.8	17.5	1.2	<0.2	23.7	3400	0.7	4.6
PG012555	4.3	12.0	1.0	<0.2	19.5	3100	0.6	4.0
PG012555 Rpt	4.3	12.0	0.9	<0.2	20.5	3000	0.6	3.7
PG012557	4.6	17.5	1.2	<0.2	19.5	3300	0.7	10.3
PG012559	4.1	16.0	0.8	<0.2	20.3	2850	0.5	2.7
PG012561	4.9	15.0	1.0	<0.2	24.2	3250	0.6	2.9
PG012563	3.3	18.5	0.8	<0.2	19.5	2650	0.4	3.6
Std Nominal	1.0	42.0				3400		
Determined	1.2	40.5	0.2	0.2	1.9	3400	0.5	1.8
PG012565	5.0	16.0	1.0	<0.2	23.7	3450	0.7	3.9
PG012567	4.4	13.5	0.9	<0.2	18.2	2900	0.8	3.7
PG012567 Rpt	4.5	14.0	0.9	<0.2	18.3	2900	0.8	3.9
PG012569	6.2	19.5	1.5	<0.2	24.0	4400	1.0	5.2
PG012571	3.4	13.5	0.9	<0.2	10.5	6650	0.5	7.0
PG012573	1.7	15.5	0.6	<0.2	4.1	9100	0.3	9.0
PG012575	1.5	18.5	0.6	<0.2	3.8	8400	0.3	16.6
PG012577	3.4	16.0	1.1	<0.2	21.9	3350	0.8	9.7
PG012579	5.4	42.0	1.2	<0.2	24.9	2600	0.6	5.6
PG012581	3.5	24.0	0.9	<0.2	23.9	2550	0.6	3.6
PG012583	6.0	18.0	1.2	<0.2	23.2	3850	1.3	4.5
PG012585	3.8	43.0	0.9	<0.2	24.7	2900	0.7	4.4



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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
PG012587	3.5	30.5	0.9	<0.2	22.6	2500	0.6	5.6
PG012589	4.1	27.5	1.0	<0.2	26.4	2850	0.6	3.2
PG012591	4.1	20.5	0.9	<0.2	25.9	2700	0.6	2.8
PG012593	3.9	15.5	0.9	<0.2	24.6	2650	0.5	3.0
Std Nominal		104				5100		
Determined	2.3	107	0.4	<0.2	2.7	5050	5.3	1.1
PG012595	5.9	22.5	1.2	<0.2	21.8	3550	1.0	4.8
PG012597	4.7	28.0	1.0	<0.2	29.4	3300	0.9	4.8
PG012599	3.8	39.0	0.8	<0.2	22.6	2750	0.8	2.9
PG012601	3.8	41.0	0.9	<0.2	25.1	2800	0.7	2.8
PG012603	3.4	36.5	0.8	<0.2	24.9	2600	0.6	2.8
BLANK 2	<0.1	<0.5	<0.1	<0.2	<0.1	<50	<0.1	<0.1
PG012605	5.5	35.0	1.3	<0.2	23.5	3100	1.0	3.5
PG012607	4.0	41.0	1.0	<0.2	24.4	2700	0.8	2.8
PG012609	4.2	24.0	1.1	<0.2	24.9	2450	0.7	2.7
PG012611	3.5	24.5	0.9	<0.2	21.5	2300	0.6	2.5
PG012613	3.3	19.5	0.8	<0.2	22.2	2350	0.7	2.9
PG012615	5.5	29.0	1.2	<0.2	24.4	2850	1.0	3.5
PG012617	5.7	22.5	1.3	<0.2	24.4	3050	1.0	3.3
PG012619	4.5	26.5	1.0	<0.2	22.1	2450	0.7	2.3
PG012619 Rpt	4.4	27.0	1.0	<0.2	22.6	2600	0.6	2.4
PG012621	3.6	23.0	0.9	<0.2	23.7	2200	0.5	2.3
PG012623	4.5	25.5	1.2	<0.2	25.4	2450	0.8	2.7
PG012625	4.7	35.0	1.0	<0.2	26.9	2650	0.9	2.8
PG012627	4.3	41.5	1.1	<0.2	25.4	2800	0.8	2.7
PG012629	5.6	10.0	1.3	<0.2	23.6	3150	1.0	2.8
PG012631	5.5	16.0	1.4	<0.2	24.4	3400	1.1	3.1
PG012633	5.3	13.5	1.4	<0.2	25.6	3400	1.2	3.6
PG012635	4.4	14.0	1.2	<0.2	24.9	3200	0.8	3.0
PG012637	5.0	14.0	1.4	<0.2	26.3	3400	1.1	3.4
PG012639	6.6	16.0	1.6	<0.2	27.6	3750	1.2	3.7
PG012641	5.4	37.5	1.4	<0.2	27.3	3150	1.0	4.8
PG012643	6.5	14.0	1.6	<0.2	26.6	3550	1.3	3.5
PG012645	2.4	100	0.9	<0.2	20.7	1950	0.3	2.7
Std Nominal	0.7	124	0.6	<0.2	5.6	2400	0.4	39.6
Determined	0.7	125	0.5	<0.2	5.1	2350	0.4	38.5
PG012647	1.9	64.0	0.9	<0.2	23.3	2200	0.6	3.3
PG012649	2.3	76.5	1.1	<0.2	25.0	2750	0.7	3.7
PG012651	2.7	22.5	1.3	<0.2	23.9	3300	1.0	4.3
PG012653	1.7	26.5	1.0	<0.2	11.5	5450	0.5	3.3
PG012655	1.4	8.5	0.6	<0.2	3.5	7100	0.1	1.7



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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
PG012657	4.1	5.5	0.9	<0.2	18.1	3450	0.5	3.0
PG012659	5.9	17.5	1.3	<0.2	23.5	3500	1.1	3.6
PG012661	3.9	25.5	1.0	<0.2	21.3	2700	0.6	5.4
PG012663	7.7	16.5	1.6	<0.2	27.2	3600	1.4	5.0
PG012665	3.9	37.0	1.0	<0.2	21.8	2800	0.7	3.8
PG012667	3.8	24.5	0.9	<0.2	16.9	2750	0.6	3.0
Std Nominal	11.0	364	0.9		14.0	4700	0.8	3.8
Determined	10.9	374	1.1	0.2	14.6	4550	0.7	3.7
PG012669	4.3	32.0	1.0	<0.2	22.2	2850	0.8	3.4
PG012671	3.7	43.5	0.6	<0.2	24.8	2300	0.7	3.4
PG012673	4.0	36.0	0.9	<0.2	25.0	2350	0.6	3.2
PG012675	4.5	34.0	1.0	<0.2	22.6	2650	0.7	2.9
PG012677	4.2	60.0	0.9	<0.2	25.9	2450	0.7	3.9
PG012679	3.9	41.5	0.9	<0.2	21.8	2250	0.6	3.4
PG012681	4.7	81.5	1.1	<0.2	26.9	2450	0.7	4.5
PG012683	4.7	55.0	1.1	<0.2	25.8	2450	0.8	4.7
PG012685	4.0	62.0	0.9	<0.2	21.6	2450	0.7	3.6
PG012687	5.1	39.0	1.1	<0.2	22.3	2800	0.8	4.7
PG012689	4.0	21.5	0.7	<0.2	21.6	2500	0.6	3.0
PG012691	4.2	29.5	0.9	<0.2	24.2	2400	0.5	4.4
PG012693	5.5	38.0	1.3	<0.2	21.8	3100	1.0	4.7
Std Nominal	5.6	338	1.4	<0.2	18.0	4650	0.9	4.9
Determined	5.6	343	1.3	<0.2	19.0	4850	0.9	4.9



Reference: aa041469.b Order Number: E0839 Page 16 of 25

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
PG012509	135	2.0	10.4	40	66	18.9	49.7	4.70
PG012511	115	2.0	13.7	48	75	26.1	39.7	5.65
PG012513	155	2.0	9.1	26	81	14.2	27.1	3.55
PG012515	230	2.5	11.3	24	172	13.2	24.3	3.15
PG012517	285	2.0	15.2	26	115	12.9	44.6	6.30
PG012525	590	3.0	9.6	40	146	11.2	24.4	2.85
PG012527	670	11.5	10.4	36	140	18.8	33.5	4.45
PG012529	505	3.5	13.0	88	132	8.6	16.0	2.35
PG012531	200	3.0	12.9	10	146	49.6	40.3	4.95
PG012533	360	3.5	16.0	12	183	17.5	32.0	3.15
PG012535	160	2.0	9.2	10	148	32.7	58.6	5.30
PG012537	280	1.0	11.6	10	142	45.1	86.0	8.75
PG012539	330	1.5	14.7	10	160	26.3	59.9	6.55
PG012541	315	1.5	17.0	18	175	33.0	76.4	8.75
PG012543	350	2.0	18.7	76	126	17.1	55.4	5.95
PG012545	335	4.0	29.1	18	155	33.4	82.1	11.4
PG012547	320	5.0	59.6	30	142	37.6	89.8	16.9
PG012549	240	3.5	65.6	144	130	22.9	56.4	8.25
PG012551	70	2.0	44.4	36	169	43.2	70.4	12.6
PG012553	70	3.0	23.9	26	200	40.7	73.8	11.0
PG012555	55	2.0	23.7	24	204	34.4	66.5	9.90
PG012555 Rpt	55	2.0	24.1	24	201	33.5	68.3	9.80
PG012557	75	2.5	26.3	52	149	24.8	52.2	7.05
PG012559	55	1.5	19.9	44	195	66.8	123	18.2
PG012561	65	2.0	17.0	44	215	40.8	75.2	9.60
PG012563	60	1.5	17.9	44	170	32.0	60.8	7.50
Std Nominal	200	22.0	26.0	264				
Determined	195	23.0	26.1	266	40	13.4	41.6	5.85
PG012565	75	2.0	18.0	42	163	40.7	75.8	9.65
PG012567	70	2.0	16.9	34	130	40.7	73.8	9.60
PG012567 Rpt	70	2.0	16.8	34	130	40.5	74.7	9.85
PG012569	105	2.5	20.1	30	163	49.7	91.6	11.8
PG012571	165	3.5	19.7	92	133	32.6	60.5	8.05
PG012573	265	3.5	19.9	110	117	10.7	26.0	3.75
PG012575	275	8.5	23.2	80	112	13.8	35.2	4.95
PG012577	150	9.0	18.8	40	116	37.7	76.9	8.95
PG012579	45	2.5	21.9	16	208	49.3	90.1	11.2
PG012581	45	2.0	16.1	12	181	46.7	85.3	10.5
PG012583	95	3.5	23.2	26	118	48.9	90.8	11.8
PG012585	50	2.0	16.7	14	173	46.4	91.6	11.2



Reference: aa041469.b Order Number: E0839 Page 17 of 25

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
PG012587	40	1.5	20.2	10	200	44.3	83.6	10.3
PG012589	50	1.5	16.2	10	212	48.1	89.2	10.9
PG012591	45	1.5	14.7	10	208	46.2	84.5	10.4
PG012593	45	2.0	19.4	10	210	53.9	100	12.3
Std Nominal	115		16.0	5190				
Determined	115	2.0	15.5	5180	79	8.8	20.2	2.65
PG012595	75	3.0	21.6	24	136	53.2	99.3	12.4
PG012597	65	2.5	19.8	20	149	46.8	86.8	10.9
PG012599	50	1.5	18.0	16	150	44.0	83.6	10.0
PG012601	50	1.5	16.9	14	181	49.4	91.6	11.2
PG012603	45	1.5	19.3	14	185	45.8	84.5	10.4
BLANK 2	<5	<0.5	<0.1	<2	<1	<0.1	<0.1	<0.05
PG012605	60	2.5	16.3	18	160	36.9	76.8	8.90
PG012607	55	2.5	15.4	24	193	40.7	78.4	9.60
PG012609	45	3.5	15.6	24	196	42.3	82.9	10.2
PG012611	40	2.5	15.9	16	173	38.5	71.6	8.80
PG012613	45	2.5	17.8	30	125	42.0	79.3	9.85
PG012615	60	2.0	21.2	28	158	50.7	94.7	11.7
PG012617	60	2.5	20.9	32	158	51.7	97.4	12.1
PG012619	45	2.0	16.0	30	171	46.6	86.0	10.6
PG012619 Rpt	50	2.0	16.6	28	173	46.8	88.8	10.7
PG012621	35	1.5	19.7	18	192	42.7	81.2	9.95
PG012623	45	2.0	17.9	14	176	56.1	109	12.7
PG012625	55	2.0	19.1	18	185	52.8	99.3	12.1
PG012627	55	2.0	17.4	24	186	50.0	94.7	11.5
PG012629	70	2.0	26.0	34	131	56.2	101	12.8
PG012631	75	2.0	25.2	34	142	54.5	104	12.8
PG012633	80	2.5	26.9	34	125	57.6	110	13.7
PG012635	60	3.0	22.5	30	180	56.5	103	12.8
PG012637	70	3.5	26.2	34	158	60.6	116	14.1
PG012639	85	4.0	24.3	34	147	57.9	109	13.6
PG012641	65	3.0	24.2	30	167	59.1	109	13.5
PG012643	85	3.5	28.0	32	130	69.5	128	19.0
PG012645	30	2.0	23.1	20	167	36.1	67.0	8.35
Std Nominal	20		10.1	14		20.3	44.5	5.20
Determined	20	<0.5	10.1	12	42	19.8	44.6	5.00
PG012647	40	2.0	15.5	18	180	44.2	83.6	10.1
PG012649	55	3.0	21.8	28	177	47.3	87.7	10.9
PG012651	70	3.5	23.2	30	122	56.1	105	13.0
PG012653	160	3.5	26.8	46	119	31.0	60.7	7.85
PG012655	225	1.0	17.6	54	89	12.5	30.9	4.15



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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
PG012657	80	2.5	18.6	12	183	37.4	71.8	8.90
PG012659	85	2.5	21.8	30	132	50.9	93.7	11.6
PG012661	55	2.0	19.7	16	168	42.7	79.6	9.80
PG012663	90	4.0	27.3	30	122	67.6	121	14.9
PG012665	55	2.0	14.9	14	172	41.6	77.3	9.35
PG012667	55	2.0	15.2	14	159	39.5	73.7	8.75
Std Nominal	135	3.5	21.0	120	82	28.0	54.0	7.20
Determined	130	3.0	21.5	118	80	30.0	56.2	7.25
PG012669	60	2.0	16.5	24	160	42.6	78.1	9.40
PG012671	35	2.0	16.7	14	150	46.0	86.8	10.3
PG012673	40	2.0	13.1	12	202	45.9	86.0	10.0
PG012675	50	2.0	20.1	18	173	51.5	95.6	11.4
PG012677	40	1.5	16.6	18	201	48.5	90.1	10.7
PG012679	35	1.5	19.7	14	179	44.2	82.1	9.75
PG012681	40	2.0	16.3	20	210	49.6	92.8	11.1
PG012683	40	2.0	16.9	16	197	47.8	96.8	11.1
PG012685	40	1.5	15.1	20	180	40.5	76.6	9.10
PG012687	55	2.0	22.0	30	153	44.9	84.5	10.1
PG012689	45	2.0	16.2	14	147	43.7	81.2	9.75
PG012691	40	2.0	17.5	14	172	39.4	75.2	8.85
PG012693	60	4.0	19.6	16	160	46.1	92.4	10.8
Std Nominal	120	3.5	24.6	88	77	33.0	68.0	7.90
Determined	125	3.5	24.1	86	77	33.7	68.0	7.95



Reference: aa041469.b 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
PG012509	15.7	3.30	0.60	2.6	0.40	2.20	0.42	1.25
PG012511	19.6	4.00	0.75	3.4	0.46	2.55	0.48	1.35
PG012513	12.1	2.65	0.50	2.2	0.34	1.95	0.38	1.10
PG012515	10.2	2.30	0.45	2.0	0.40	2.35	0.48	1.50
PG012517	24.5	5.35	1.05	4.4	0.62	3.35	0.62	1.75
PG012525	9.85	2.40	0.70	2.0	0.34	2.10	0.40	1.25
PG012527	14.8	3.05	0.95	2.6	0.40	2.35	0.44	1.35
PG012529	8.80	2.40	0.85	2.4	0.42	2.70	0.52	1.65
PG012531	12.2	2.10	0.85	2.2	0.38	2.45	0.50	1.55
PG012533	9.95	2.35	0.90	2.6	0.46	3.00	0.62	2.00
PG012535	15.0	2.50	0.75	2.0	0.30	1.80	0.36	1.20
PG012537	25.8	3.90	1.10	2.8	0.42	2.50	0.48	1.50
PG012539	21.0	3.50	1.10	2.6	0.42	2.80	0.58	1.95
PG012541	29.4	4.95	1.35	3.6	0.54	3.45	0.70	2.20
PG012543	25.9	5.65	1.60	4.0	0.60	3.55	0.66	2.05
PG012545	49.9	13.9	3.95	12.2	1.50	7.55	1.28	3.50
PG012547	83.5	22.4	6.75	21.6	2.84	14.5	2.50	6.55
PG012549	37.9	9.75	2.90	12.4	1.92	11.6	2.28	6.15
PG012551	50.2	12.0	2.50	13.2	1.66	8.95	1.64	4.50
PG012553	40.4	8.35	1.40	7.4	0.96	5.25	0.94	2.75
PG012555	36.2	7.15	1.25	6.4	0.88	4.75	0.98	2.45
PG012555 Rpt	35.3	7.00	1.25	6.2	0.88	4.70	0.96	2.50
PG012557	28.2	6.05	1.35	6.0	0.94	5.20	1.00	2.85
PG012559	52.2	9.20	1.35	6.4	0.76	4.00	0.66	1.85
PG012561	32.8	5.85	1.00	5.0	0.62	3.25	0.60	1.75
PG012563	25.9	4.75	1.05	4.0	0.56	3.40	0.60	1.80
Std Nominal								
Determined	23.9	5.55	1.75	6.2	0.92	5.50	1.04	3.00
PG012565	33.7	6.10	1.00	5.2	0.66	3.70	0.66	1.95
PG012567	33.3	6.05	0.90	5.0	0.64	3.40	0.60	1.80
PG012567 Rpt	33.3	6.00	0.90	4.8	0.62	3.35	0.62	1.75
PG012569	41.0	7.30	1.25	6.0	0.76	4.20	0.76	2.25
PG012571	29.5	5.90	1.35	5.4	0.74	4.15	0.74	2.15
PG012573	15.5	3.85	1.15	4.6	0.66	4.05	0.76	2.20
PG012575	20.4	4.95	1.85	5.8	0.82	4.95	0.92	2.55
PG012577	32.7	5.90	1.50	4.8	0.70	3.95	0.72	2.05
PG012579	38.2	6.65	1.10	5.8	0.78	4.45	0.80	2.35
PG012581	35.7	5.95	0.95	5.0	0.62	3.40	0.60	1.80
PG012583	41.1	7.30	1.15	6.4	0.88	5.25	0.88	2.55
PG012585	38.2	6.50	0.95	5.4	0.68	3.70	0.62	1.90



Reference: aa041469.b Order Number: E0839 Page 20 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
PG012587	35.2	6.05	1.00	5.2	0.68	3.95	0.70	2.10
PG012589	36.9	6.00	0.90	5.2	0.66	3.60	0.62	1.85
PG012591	35.1	5.80	0.90	4.8	0.58	3.15	0.54	1.60
PG012593	42.1	6.80	1.10	5.8	0.72	4.00	0.70	2.10
Std Nominal								
Determined	10.8	2.60	1.05	3.4	0.54	3.15	0.60	1.80
PG012595	42.6	7.20	1.25	6.2	0.84	4.95	0.80	2.40
PG012597	37.4	6.15	1.10	5.6	0.74	4.10	0.74	2.10
PG012599	34.8	5.90	1.00	5.4	0.72	3.75	0.64	2.00
PG012601	38.3	6.15	1.05	5.6	0.66	3.75	0.70	1.90
PG012603	35.5	5.65	0.90	5.2	0.68	3.80	0.70	2.05
BLANK 2	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05	<0.02	<0.05
PG012605	32.5	5.80	0.90	4.6	0.62	3.45	0.64	1.80
PG012607	33.3	5.60	0.90	5.0	0.62	3.30	0.58	1.85
PG012609	35.4	6.05	0.95	5.2	0.62	3.35	0.56	1.75
PG012611	30.5	5.15	0.95	4.6	0.60	3.35	0.56	1.90
PG012613	34.7	5.90	1.00	5.2	0.66	3.55	0.64	1.90
PG012615	41.4	7.05	1.20	6.0	0.78	4.50	0.78	2.30
PG012617	42.2	7.25	1.20	6.2	0.78	4.45	0.98	2.50
PG012619	37.0	6.15	1.25	5.2	0.64	3.35	0.60	1.85
PG012619 Rpt	37.6	6.35	1.25	5.2	0.62	3.45	0.58	1.80
PG012621	34.9	6.00	1.05	5.4	0.68	3.90	0.70	2.05
PG012623	45.8	7.85	1.35	5.6	0.86	3.90	0.68	2.00
PG012625	41.7	7.00	1.00	5.8	0.74	4.00	0.68	2.00
PG012627	40.4	6.70	0.95	5.8	0.68	4.00	0.66	2.00
PG012629	45.6	8.15	1.40	7.2	0.92	5.20	0.90	2.70
PG012631	45.8	8.00	1.30	6.8	0.92	5.00	0.90	2.65
PG012633	48.3	8.50	1.35	7.4	1.00	5.75	1.00	2.90
PG012635	45.6	7.85	1.25	6.6	0.84	4.80	0.90	2.60
PG012637	50.3	8.90	1.45	7.8	1.00	5.70	0.98	2.90
PG012639	48.1	8.55	1.45	7.4	0.94	5.20	0.94	3.05
PG012641	47.6	8.25	1.30	6.8	0.92	5.00	0.90	2.65
PG012643	55.4	9.65	1.55	8.2	1.06	5.95	1.06	3.10
PG012645	29.9	5.50	0.90	5.2	0.70	4.25	0.80	2.40
Std Nominal	19.4	3.80		3.2	0.42		0.42	1.20
Determined	18.8	3.75	1.00	3.0	0.40	2.30	0.40	1.15
PG012647	35.4	6.10	1.00	5.4	0.62	3.30	0.58	1.95
PG012649	39.2	7.05	1.25	6.0	0.80	4.45	0.84	2.45
PG012651	46.3	8.25	1.55	6.8	0.94	5.25	0.90	2.60
PG012653	30.3	6.15	1.55	6.0	0.84	5.15	0.98	2.90
PG012655	17.6	4.05	1.25	4.8	0.58	3.45	0.66	2.00



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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
PG012657	32.5	5.95	1.00	5.4	0.66	3.75	0.68	2.00
PG012659	41.2	7.55	1.15	6.2	0.80	4.55	0.80	2.50
PG012661	35.3	6.55	1.05	5.6	0.72	3.95	0.74	2.10
PG012663	52.9	9.65	1.50	8.0	1.04	5.85	1.04	3.00
PG012665	33.2	5.90	0.95	4.8	0.60	3.20	0.56	1.75
PG012667	31.3	5.65	0.95	4.8	0.58	3.15	0.58	1.75
Std Nominal	27.0	5.50	1.30	5.6		4.30	0.80	2.50
Determined	27.4	5.50	1.30	5.2	0.74	4.50	0.84	2.55
PG012669	33.4	6.05	1.00	4.8	0.62	3.35	0.62	1.90
PG012671	36.8	6.45	0.95	5.2	0.62	3.45	0.64	1.85
PG012673	35.0	6.05	0.95	4.6	0.54	2.85	0.50	1.50
PG012675	40.8	7.35	1.15	6.0	0.76	4.10	0.80	2.20
PG012677	38.0	6.70	1.00	5.4	0.66	3.55	0.64	2.10
PG012679	35.1	6.35	1.00	5.4	0.68	3.85	0.70	2.05
PG012681	39.8	7.05	1.05	5.4	0.66	3.50	0.70	1.90
PG012683	40.3	6.95	1.10	5.2	0.78	3.70	0.66	2.00
PG012685	32.8	5.90	0.90	4.6	0.60	3.45	0.58	1.70
PG012687	36.7	7.00	1.00	5.6	0.74	4.35	0.86	2.40
PG012689	35.1	6.35	1.00	5.0	0.62	3.35	0.62	1.80
PG012691	32.1	6.00	0.95	5.2	0.64	3.50	0.70	1.95
PG012693	39.7	7.10	1.05	5.4	0.74	4.15	0.78	2.20
Std Nominal	30.6	5.95	1.40	5.4	0.80	4.85	0.92	2.60
Determined	30.5	5.95	1.40	5.4	0.80	4.85	0.92	2.60



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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	201683	1
PG012509	0.20	1.20	0.18	201683	2
PG012511	0.20	1.25	0.18	201683	3
PG012513	0.15	1.10	0.18	201683	4
PG012515	0.25	1.55	0.24	201683	5
PG012517	0.25	1.60	0.24	201683	6
PG012525	0.20	1.35	0.20	201683	7
PG012527	0.20	1.40	0.22	201683	8
PG012529	0.25	1.70	0.26	201683	9
PG012531	0.25	1.65	0.26	201683	10
PG012533	0.30	2.15	0.32	201683	11
PG012535	0.20	1.40	0.24	201683	12
PG012537	0.25	1.65	0.26	201683	13
PG012539	0.30	2.15	0.32	201683	14
PG012541	0.35	2.45	0.36	201683	15
PG012543	0.30	2.05	0.30	201683	16
PG012545	0.50	3.25	0.44	201683	17
PG012547	0.85	5.20	0.80	201683	18
PG012549	0.80	4.70	0.74	201683	19
PG012551	0.60	3.60	0.52	201683	20
PG012553	0.40	2.50	0.38	201683	21
PG012555	0.35	2.25	0.34	201683	22
PG012555 Rpt	0.35	2.25	0.32	201683	23
PG012557	0.35	2.45	0.40	201683	24
PG012559	0.25	1.60	0.24	201683	25
PG012561	0.25	1.70	0.26	201683	26
PG012563	0.30	1.80	0.28	201683	27
Std Nominal					
Determined	0.40	2.65	0.40	201683	28
PG012565	0.25	1.80	0.28	201683	29
PG012567	0.25	1.70	0.26	201683	30
PG012567 Rpt	0.25	1.75	0.28	201683	31
PG012569	0.30	2.30	0.34	201683	32
PG012571	0.30	2.05	0.30	201683	33
PG012573	0.30	1.95	0.30	201683	34
PG012575	0.35	2.15	0.32	201683	35
PG012577	0.25	2.00	0.32	201683	36
PG012579	0.35	2.15	0.32	201683	37
PG012581	0.25	1.70	0.26	201683	38
PG012583	0.35	2.50	0.38	201683	39
PG012585	0.25	1.75	0.26	201683	40



Reference: aa041469.b Order Number: E0839 Page 23 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
PG012587	0.30	1.95	0.30	201683	41
PG012589	0.30	1.80	0.30	201683	42
PG012591	0.25	1.55	0.24	201683	43
PG012593	0.30	2.10	0.30	201683	44
Std Nominal					
Determined	0.25	1.85	0.26	201683	45
PG012595	0.35	2.45	0.34	201683	46
PG012597	0.30	2.05	0.32	201683	47
PG012599	0.25	1.80	0.28	201683	48
PG012601	0.30	1.80	0.28	201683	49
PG012603	0.30	1.90	0.28	201683	50
BLANK 2	<0.05	<0.05	<0.02	201683	51
PG012605	0.25	1.80	0.30	201683	52
PG012607	0.25	1.90	0.26	201683	53
PG012609	0.25	1.60	0.26	201683	54
PG012611	0.25	1.60	0.24	201683	55
PG012613	0.25	1.75	0.26	201683	56
PG012615	0.35	2.15	0.32	201683	57
PG012617	0.35	2.20	0.34	201683	58
PG012619	0.25	1.60	0.24	201683	59
PG012619 Rpt	0.25	1.60	0.26	201683	60
PG012621	0.30	1.90	0.32	201683	61
PG012623	0.25	1.90	0.30	201683	62
PG012625	0.30	1.85	0.28	201683	63
PG012627	0.25	1.85	0.28	201683	64
PG012629	0.40	2.55	0.38	201683	65
PG012631	0.40	2.70	0.38	201683	66
PG012633	0.40	2.90	0.42	201683	67
PG012635	0.35	2.40	0.36	201683	68
PG012637	0.40	2.85	0.54	201683	69
PG012639	0.40	2.65	0.40	201683	70
PG012641	0.40	2.75	0.38	201683	71
PG012643	0.45	2.85	0.44	201683	72
PG012645	0.35	2.50	0.38	201683	73
Std Nominal	0.15	1.05	0.16		
Determined	0.15	1.05	0.16	201683	74
PG012647	0.25	1.60	0.24	201683	75
PG012649	0.35	2.30	0.34	201683	76
PG012651	0.45	2.50	0.38	201683	77
PG012653	0.40	2.70	0.40	201683	78
PG012655	0.30	1.75	0.26	201683	79



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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
PG012657	0.30	1.85	0.28	201683	80
PG012659	0.35	2.30	0.34	201683	81
PG012661	0.30	1.95	0.30	201683	82
PG012663	0.45	2.80	0.42	201683	83
PG012665	0.25	1.50	0.24	201683	84
PG012667	0.25	1.60	0.26	201683	85
Std Nominal	0.40	2.30			
Determined	0.35	2.25	0.34	201683	86
PG012669	0.25	1.70	0.26	201683	87
PG012671	0.25	1.70	0.26	201683	88
PG012673	0.20	1.40	0.22	201683	89
PG012675	0.30	2.05	0.32	201683	90
PG012677	0.25	1.70	0.26	201683	91
PG012679	0.30	1.90	0.30	201683	92
PG012681	0.25	1.75	0.26	201683	93
PG012683	0.25	1.85	0.30	201683	94
PG012685	0.25	1.80	0.24	201683	95
PG012687	0.35	2.25	0.34	201683	96
PG012689	0.25	1.65	0.26	201683	97
PG012691	0.25	1.80	0.28	201683	98
PG012693	0.30	2.10	0.34	201683	99
Std Nominal	0.35	2.50	0.38		
Determined	0.35	2.45	0.38	201683	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.