



A M D E L

Patrick Maher
RESOURCE STAR LTD
Level 9, 440 Collins Street
MELBOURNE VIC 3000

Amdel Limited
PO Box 338
Torrensville Plaza SA 5031

ABN 30 008 127 802
Telephone (08) 8416 5200
Facsimile (08) 8234 0355



FINAL ANALYSIS REPORT

Your Order No:	AU0896162-10	Our Job Number:	ODN0131
Sample rec'd:	13/12/10	Results reported:	11/01/11
No. of samples:	66	Type of Sample:	

Results apply to sample(s) submitted by the client.

Report comprises a letter and report pages: 1 to 16

This report supersedes any preliminary results previously reported.

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Approved:

Darryl Hartley
Business Unit Manager
Adelaide Geoanalytical

Robert Silvani
Senior Chemist

Neville Walkom
Senior Chemist

Report Codes:

N.A. - Not Available
L.N.R. - Listed But Not Received

I.S. - Insufficient Sample
R.N.L. - Received But Not Listed

Please Note

- 1) The results for elements 'Al, Ba, Cr, Ti, W, Zr, Sn' by code IC3E digest are acid soluble only, and results may be semi-quantative. 'K' values > 1% by code IC3E may bias low due to the insolubility of potassium perchlorate.
- 2) For scheme IC4, Total 'Fe' is analysed but is calculated and reported as 'Fe2O3'

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SAMPLE	As	Ca	Cr	Cu	Fe	K	Mg
MAR-001	32	650	410	65	20.77%	9500	2100
MAR-002	230	550	245	50	23.96%	3100	1000
MAR-003	70	225	115	33	19.20%	3400	800
MAR-004	20	370	200	25	13.58%	8800	1600
MAR-005	26	380	215	30	16.89%	6400	1300
MAR-006	< 3	435	37	18	1.29%	2800	900
MAR-007	55	650	90	46	17.29%	6800	1900
MAR-008	50	405	120	80	21.03%	4300	1100
MAR-009	6	1500	75	33	3.49%	7100	2500
MAR-010	14	315	65	33	7.29%	4700	1300
MAR-011	< 3	260	26	15	1.13%	2600	650
MAR-012	14	260	255	16	13.89%	9800	1400
MAR-013	20	225	255	10	13.00%	1.48%	1800
MAR-014	22	350	225	50	21.14%	1.31%	2300
MAR-015	16	235	220	17	15.20%	1.80%	2000
MAR-016	8	305	205	70	14.14%	1.65%	3800
MAR-017	8	185	100	60	7.34%	9200	2400
MAR-018	24	285	110	55	17.89%	1.81%	3600
MAR-019	16	280	150	48	18.47%	1.52%	2800
MAR-020	16	270	100	60	16.02%	1.77%	3500
MAR-021	10	195	90	65	12.23%	1.61%	3900
MAR-022	28	200	160	70	20.73%	1.05%	2200
MAR-023	< 3	1700	80	36	4.22%	1.03%	2600
MAR-024	4	390	125	55	3.11%	1.48%	3000
MAR-025	8	270	265	32	14.66%	1.51%	2100
MAR-026	6	375	85	8	8.48%	2.56%	5800
MAR-027	< 3	325	45	23	1.22%	6300	1500
MAR-028	8	290	155	11	10.87%	1.53%	2100
MAR-029	12	270	160	70	14.95%	2.46%	4200
MAR-030	28	500	135	60	17.32%	1.67%	3200
MAR-031	4	145	70	9	5.65%	6700	1300
MAR-032	< 3	265	55	42	2.56%	5500	1500
MAR-033	4	175	105	49	6.80%	2.73%	3600
MAR-034	20	430	290	50	20.78%	1.36%	2700
MAR-035	22	355	65	60	16.60%	1.47%	3200
MAR-036	8	175	90	140	14.16%	1.84%	3700
MAR-037	36	400	60	300	14.59%	7800	2200
MAR-038	4	235	120	38	7.01%	3.47%	6500
MAR-039	44	155	60	45	9.54%	1.21%	2700
MAR-040	4	165	27	50	6850	4300	1200
MAR-041	430	405	60	110	18.78%	1300	600
MAR-042	85	345	160	60	20.41%	9400	2000
MAR-043	6	175	19	46	9000	1800	700
MAR-044	130	255	185	140	22.67%	1.37%	3400
MAR-045	95	325	45	60	29.76%	5400	1400
MAR-046	10	300	50	31	4.00%	2400	1000
MAR-047	18	320	100	50	11.02%	8800	2100
MAR-048	8	445	45	40	2.78%	5400	1500
MAR-049	110	650	160	65	16.75%	8100	2300
MAR-050	8	415	80	24	4.00%	4300	1100
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	3	10	2	2	100	10	10
SCHEME	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E
UPPER SCHEME					IC3E		

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SAMPLE	As	Ca	Cr	Cu	Fe	K	Mg
MAR-051	14	365	85	160	34.21%	1900	650
MAR-052	90	800	26	275	28.97%	375	550
MAR-053	10	370	47	175	23.24%	1.66%	3400
MAR-054	24	265	32	95	33.03%	170	145
MAR-055	6	195	46	260	34.27%	1.82%	3000
MAR-056	60	495	8	450	22.81%	1.11%	295
MAR-057	220	435	33	350	35.04%	1100	475
MAR-058	4	700	105	11	1.02%	210	105
MAR-059	115	470	130	65	22.50%	1.04%	2100
MAR-060	90	185	45	235	9.89%	1000	405
MAR-061	< 3	95	41	30	1.63%	245	180
MAR-062	235	600	21	320	28.36%	1.24%	330
MAR-063	30	215	55	50	14.85%	1.18%	2000
MAR-064	14	160	49	25	8.89%	1.79%	2700
MAR-065	8	245	49	24	16.40%	3300	550
MAR-066	18	250	50	33	13.85%	6800	1200

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	3	10	2	2	100	10	10
SCHEME	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E

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SAMPLE	Mn	Na	Ni	P	Pb	Ti	V
MAR-001	275	115	50	295	35	4100	455
MAR-002	360	90	34	350	75	3000	800
MAR-003	95	65	16	380	55	1500	345
MAR-004	145	135	30	260	25	3600	210
MAR-005	205	110	40	280	30	3200	240
MAR-006	55	175	14	60	20	6800	55
MAR-007	500	155	48	420	30	1800	285
MAR-008	125	105	24	200	45	2800	345
MAR-009	75	310	30	105	20	5500	90
MAR-010	600	110	25	180	20	4500	95
MAR-011	95	145	9	40	5	4500	26
MAR-012	105	155	25	230	25	2400	165
MAR-013	175	230	26	255	20	3200	160
MAR-014	220	135	55	390	30	6200	320
MAR-015	100	350	30	300	30	3000	160
MAR-016	75	190	50	280	15	4000	215
MAR-017	75	140	35	175	15	4800	130
MAR-018	250	195	41	600	25	2700	110
MAR-019	90	160	50	475	25	6200	250
MAR-020	115	170	45	600	20	6700	200
MAR-021	70	200	22	600	25	3100	120
MAR-022	105	130	38	500	25	3900	245
MAR-023	55	415	32	65	20	4600	90
MAR-024	120	1600	70	220	35	3700	120
MAR-025	360	260	39	375	30	4200	185
MAR-026	950	205	100	185	10	2800	75
MAR-027	80	275	16	50	10	5500	43
MAR-028	140	240	21	260	20	5100	105
MAR-029	175	235	55	550	25	6500	225
MAR-030	205	180	70	500	30	4700	220
MAR-031	45	140	18	100	20	2100	55
MAR-032	50	170	21	85	10	4500	75
MAR-033	75	225	27	175	35	6200	170
MAR-034	230	165	55	650	25	4100	310
MAR-035	430	170	140	900	10	2200	120
MAR-036	35	210	45	1000	15	3200	115
MAR-037	1.05%	115	305	600	15	1600	105
MAR-038	90	300	43	185	10	4500	125
MAR-039	365	145	18	320	15	2500	150
MAR-040	50	135	21	55	25	4300	48
MAR-041	105	75	47	295	70	3600	220
MAR-042	2600	145	38	325	35	2700	330
MAR-043	55	90	22	70	10	2200	48
MAR-044	135	145	37	405	45	2900	1300
MAR-045	1500	85	225	1400	25	700	65
MAR-046	215	85	31	165	10	1800	70
MAR-047	115	125	37	340	15	4300	150
MAR-048	220	110	18	100	5	4000	55
MAR-049	220	125	17	220	50	3100	1100
MAR-050	550	85	23	155	5	1700	55
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	5	10	2	10	5	10	2
SCHEME	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E

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SAMPLE	Mn	Na	Ni	P	Pb	Ti	V
MAR-051	3300	40	150	2300	10	470	90
MAR-052	900	25	750	3000	5	190	55
MAR-053	170	150	65	2800	15	2000	140
MAR-054	335	10	600	4900	<5	60	8
MAR-055	70	230	135	1900	20	1500	125
MAR-056	11.73%	150	600	3800	15	70	6
MAR-057	1100	25	440	3100	65	205	180
MAR-058	140	10	9	135	<5	185	6
MAR-059	1.01%	165	90	485	45	2600	270
MAR-060	800	60	75	750	10	265	65
MAR-061	170	25	15	85	<5	350	13
MAR-062	15.78%	270	1000	5000	35	500	115
MAR-063	8000	125	45	1400	20	2000	80
MAR-064	220	150	19	650	10	2300	70
MAR-065	750	50	24	1800	10	1600	60
MAR-066	330	105	15	1000	15	2200	75

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	5	10	2	10	5	10	2
SCHEME	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E	IC3E

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SAMPLE	Ag	Bi	Cd	Cs	Ce	Co	Ga
MAR-001	0.5	0.4	0.3	2.5	17.5	9.0	23.5
MAR-002	0.8	1.2	0.3	2.4	34.0	4.6	31.5
MAR-003	0.4	0.7	0.2	1.5	50	3.6	14.0
MAR-004	0.7	0.4	0.4	2.9	31.0	7.0	15.5
MAR-005	0.6	0.5	0.3	2.9	30.0	9.5	14.0
MAR-006	0.6	0.3	0.3	3.1	60	5.0	8.0
MAR-007	0.6	0.7	0.2	2.0	38.0	11.5	13.0
MAR-008	0.5	0.5	0.2	2.9	28.0	5.5	14.0
MAR-009	0.6	0.6	0.3	8.0	90	11.0	23.0
MAR-010	0.5	0.4	0.3	4.4	48.0	17.5	13.5
MAR-011	0.4	0.2	0.1	1.7	36.0	4.4	4.7
MAR-012	0.8	0.4	0.4	2.2	11.5	3.8	14.0
MAR-013	0.8	0.5	0.5	3.3	12.0	3.0	17.5
MAR-014	0.8	0.6	0.4	4.0	22.5	8.5	24.0
MAR-015	0.8	0.7	0.5	4.5	21.0	4.0	21.5
MAR-016	0.6	0.4	0.3	3.9	25.0	11.5	21.0
MAR-017	0.6	0.3	0.3	4.6	36.0	11.5	18.5
MAR-018	0.4	0.5	0.3	3.0	42.5	17.5	17.0
MAR-019	0.7	0.6	0.4	3.0	26.0	7.5	21.0
MAR-020	0.6	0.4	0.4	3.2	33.5	8.5	18.0
MAR-021	0.6	0.4	0.3	3.5	50	8.0	18.5
MAR-022	0.6	0.6	0.3	2.3	30.0	11.5	18.0
MAR-023	0.5	0.4	0.3	8.5	49.0	8.0	25.5
MAR-024	0.6	0.5	0.3	11.5	60	20.5	36.5
MAR-025	0.6	0.3	0.4	3.9	21.0	7.0	19.0
MAR-026	0.2	0.2	0.2	19.0	18.0	17.5	19.0
MAR-027	0.4	0.3	0.2	3.3	36.0	6.0	10.5
MAR-028	0.8	0.3	0.4	3.9	14.0	3.4	16.5
MAR-029	0.7	0.6	0.4	4.5	28.0	9.5	26.5
MAR-030	0.5	0.6	0.4	3.7	28.5	14.5	20.0
MAR-031	1.1	0.3	0.6	1.7	8.5	2.4	9.5
MAR-032	0.5	0.2	0.3	2.7	30.0	6.0	12.0
MAR-033	0.6	0.3	0.4	4.1	15.5	7.5	25.0
MAR-034	0.6	0.5	0.3	3.0	26.5	10.0	22.0
MAR-035	0.1	0.4	0.2	2.5	39.5	42.0	16.5
MAR-036	0.6	0.4	0.3	3.6	44.5	5.5	19.0
MAR-037	0.6	0.6	0.5	3.0	60	145	14.5
MAR-038	0.6	0.3	0.4	5.0	27.0	9.0	25.5
MAR-039	0.6	1.2	0.2	3.0	32.0	7.0	17.0
MAR-040	0.5	0.3	0.2	2.7	28.5	3.4	10.5
MAR-041	0.8	0.8	0.3	1.1	36.5	5.0	14.0
MAR-042	0.5	1.0	0.3	3.6	55	49.0	19.5
MAR-043	0.4	0.3	0.1	1.9	18.0	4.8	6.0
MAR-044	0.7	1.6	0.2	2.5	39.5	4.6	25.5
MAR-045	0.4	0.1	0.5	1.3	21.5	37.5	6.0
MAR-046	0.3	0.3	0.1	2.1	35.5	17.5	8.5
MAR-047	0.6	0.3	0.3	2.2	39.0	8.0	15.0
MAR-048	0.6	0.3	0.3	2.4	31.5	12.5	7.5
MAR-049	0.6	1.5	0.2	1.7	29.5	4.6	20.5
MAR-050	1.3	0.1	0.7	0.8	20.5	11.5	5.5
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.1	0.1	0.1	0.1	0.5	0.2	0.1
SCHEME	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M

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SAMPLE	Ag	Bi	Cd	Cs	Ce	Co	Ga
MAR-051	0.7	0.2	0.2	0.9	32.0	70	5.0
MAR-052	0.2	0.4	0.6	0.1	22.0	65	2.8
MAR-053	0.6	0.1	0.4	2.9	55	15.5	13.0
MAR-054	0.2	< 0.1	0.3	< 0.1	6.5	90	0.9
MAR-055	0.4	0.3	1.0	4.0	43.0	15.0	14.0
MAR-056	0.3	0.1	2.1	0.2	8.5	900	4.6
MAR-057	0.3	2.5	0.7	0.3	12.0	65	10.0
MAR-058	0.4	0.4	< 0.1	0.1	4.5	3.2	0.7
MAR-059	0.5	0.6	0.3	4.4	145	140	20.0
MAR-060	0.9	0.2	0.1	0.4	26.0	18.0	2.3
MAR-061	0.6	< 0.1	0.2	< 0.1	7.5	5.5	1.6
MAR-062	1.1	1.8	3.4	0.5	65	750	14.0
MAR-063	0.5	0.6	0.3	3.3	50.0	46.5	22.5
MAR-064	0.6	0.4	0.3	4.9	55	6.0	31.5
MAR-065	0.4	0.3	0.2	0.9	41.0	6.0	21.5
MAR-066	0.4	0.6	0.2	2.0	32.0	4.0	19.5

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.1	0.1	0.1	0.1	0.5	0.2	0.1
SCHEME	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M

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SAMPLE	In	La	Mo	Nb	Rb	Sb	Se
MAR-001	<0.5	11.5	3.5	5.0	48.5	3.5	5
MAR-002	<0.5	23.0	50	8.5	24.5	16.5	14
MAR-003	<0.5	33.0	10.0	5.0	28.0	7.0	4
MAR-004	<0.5	18.0	3.7	8.0	55	2.5	2
MAR-005	<0.5	16.0	6.0	7.0	49.5	3.5	3
MAR-006	<0.5	29.0	1.5	16.5	28.0	1.0	<1
MAR-007	<0.5	26.5	8.0	4.5	42.0	4.0	8
MAR-008	<0.5	17.5	8.0	7.0	42.5	4.0	6
MAR-009	<0.5	47.5	1.1	15.5	95	1.0	<1
MAR-010	<0.5	28.0	2.6	11.5	70	2.0	2
MAR-011	<0.5	19.0	0.8	10.0	25.0	<0.5	<1
MAR-012	<0.5	6.0	2.4	5.5	55	2.0	3
MAR-013	<0.5	5.0	2.1	8.0	80	1.5	3
MAR-014	<0.5	14.0	2.7	8.5	70	2.5	4
MAR-015	<0.5	13.0	2.3	8.0	95	2.0	6
MAR-016	<0.5	17.0	0.9	6.0	75	1.0	3
MAR-017	<0.5	20.5	1.0	8.0	65	1.0	2
MAR-018	<0.5	33.5	1.0	7.0	75	3.0	3
MAR-019	<0.5	16.0	2.8	8.5	70	2.5	5
MAR-020	<0.5	18.5	1.5	8.0	75	2.5	3
MAR-021	<0.5	37.0	1.7	7.0	75	2.0	4
MAR-022	<0.5	19.0	2.5	6.0	50	3.5	3
MAR-023	<0.5	26.5	0.7	11.5	145	0.5	<1
MAR-024	<0.5	31.5	1.7	10.0	185	1.0	1
MAR-025	<0.5	8.5	1.4	10.0	85	2.0	3
MAR-026	<0.5	7.5	0.8	8.5	160	1.5	2
MAR-027	<0.5	19.5	0.5	10.5	50	<0.5	<1
MAR-028	<0.5	7.5	1.3	12.0	85	1.0	1
MAR-029	<0.5	17.0	1.8	9.0	95	2.0	3
MAR-030	<0.5	20.5	2.6	8.0	75	2.5	3
MAR-031	<0.5	3.0	0.9	6.5	38.5	0.5	3
MAR-032	<0.5	16.5	0.6	7.5	43.5	0.5	1
MAR-033	<0.5	10.0	0.7	9.0	105	1.0	2
MAR-034	<0.5	19.0	2.1	6.0	60	3.0	5
MAR-035	<0.5	23.5	1.3	6.0	55	0.5	2
MAR-036	<0.5	32.5	1.3	9.0	85	1.5	4
MAR-037	<0.5	39.5	2.7	4.5	46.5	3.5	1
MAR-038	<0.5	19.0	0.8	10.0	150	0.5	<1
MAR-039	<0.5	22.0	5.0	8.5	75	2.0	3
MAR-040	<0.5	17.0	1.4	9.0	35.0	1.0	<1
MAR-041	<0.5	23.0	31.5	10.5	11.0	31.5	13
MAR-042	<0.5	33.5	14.0	8.0	70	7.0	3
MAR-043	<0.5	11.0	1.2	5.0	18.5	1.5	<1
MAR-044	<0.5	26.0	28.0	8.0	55	14.5	25
MAR-045	<0.5	14.0	3.4	2.0	24.5	3.5	1
MAR-046	<0.5	24.5	1.9	4.5	22.5	1.5	2
MAR-047	<0.5	24.5	1.3	6.5	44.0	2.0	2
MAR-048	<0.5	16.5	1.3	6.5	47.0	1.0	<1
MAR-049	<0.5	20.0	60	8.0	40.5	6.5	16
MAR-050	<0.5	11.0	1.1	3.0	23.0	<0.5	<1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.5	0.5	0.1	0.5	0.1	0.5	1
SCHEME	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M

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SAMPLE	In	La	Mo	Nb	Rb	Sb	Se
MAR-051	<0.5	25.5	6.0	1.5	15.0	1.0	<1
MAR-052	<0.5	36.5	5.0	0.5	2.0	3.5	<1
MAR-053	<0.5	25.0	0.6	3.0	70	1.5	<1
MAR-054	<0.5	7.5	2.5	<0.5	1.3	<0.5	<1
MAR-055	<0.5	36.5	1.7	3.5	75	1.5	<1
MAR-056	<0.5	10.0	<0.1	<0.5	26.0	2.0	<1
MAR-057	<0.5	11.5	25.0	0.5	5.5	32.5	4
MAR-058	<0.5	3.0	1.2	<0.5	1.4	5.0	<1
MAR-059	<0.5	33.5	12.5	7.0	80	8.5	3
MAR-060	<0.5	12.0	3.4	0.5	7.0	12.5	<1
MAR-061	<0.5	5.5	0.7	<0.5	1.6	<0.5	<1
MAR-062	0.5	39.5	<0.1	1.5	28.5	6.0	2
MAR-063	<0.5	24.5	1.8	7.0	75	2.0	1
MAR-064	<0.5	30.0	1.2	12.0	115	1.5	2
MAR-065	<0.5	21.5	0.5	6.5	22.5	0.5	<1
MAR-066	<0.5	19.0	0.8	7.0	45.0	1.5	3

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.5	0.5	0.1	0.5	0.1	0.5	1
SCHEME	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M

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A M D E L

SAMPLE	Sr	Te	Th	Tl	U	W	Y
MAR-001	8.5	0.4	13.0	0.1	2.9	0.5	12.0
MAR-002	19.0	0.8	21.5	0.3	7.5	1.5	10.0
MAR-003	16.0	0.6	13.5	0.2	7.0	1.5	10.5
MAR-004	9.0	0.2	15.0	0.3	4.7	1.0	13.5
MAR-005	10.5	0.4	15.0	0.3	5.5	1.0	13.0
MAR-006	11.0	<0.2	14.5	0.3	6.0	1.0	20.5
MAR-007	16.0	0.4	11.5	0.3	5.0	1.0	11.5
MAR-008	11.0	0.4	12.5	0.3	9.0	1.5	10.5
MAR-009	23.5	<0.2	21.5	0.7	11.5	2.0	31.5
MAR-010	11.5	<0.2	15.5	0.4	5.5	1.0	20.0
MAR-011	8.0	<0.2	12.5	0.2	3.1	0.5	18.0
MAR-012	5.0	0.2	15.5	0.2	2.8	0.5	10.0
MAR-013	8.0	0.4	19.5	0.3	2.8	0.5	12.0
MAR-014	8.0	0.4	14.5	0.2	2.8	0.5	15.5
MAR-015	8.5	0.4	20.0	0.4	3.6	0.5	14.5
MAR-016	10.0	0.4	11.5	0.2	2.5	<0.5	17.5
MAR-017	9.0	<0.2	12.0	0.3	3.6	0.5	18.0
MAR-018	15.0	0.4	13.5	0.2	4.5	1.0	17.5
MAR-019	8.5	0.6	14.0	0.2	4.1	0.5	20.5
MAR-020	9.5	0.4	11.0	0.2	3.6	0.5	19.0
MAR-021	26.5	0.2	14.5	0.3	6.0	1.0	29.0
MAR-022	11.5	0.6	13.5	0.2	4.0	0.5	16.0
MAR-023	22.0	<0.2	21.5	0.7	5.5	1.0	21.5
MAR-024	21.0	<0.2	26.5	0.9	7.5	1.5	26.5
MAR-025	11.0	0.2	17.0	0.4	3.3	0.5	14.0
MAR-026	12.5	<0.2	15.5	0.9	1.8	<0.5	15.5
MAR-027	10.0	<0.2	14.5	0.2	3.4	0.5	19.5
MAR-028	9.5	0.2	18.5	0.4	3.2	0.5	14.0
MAR-029	7.5	0.6	12.5	0.2	2.7	<0.5	17.0
MAR-030	15.5	0.4	15.5	0.3	3.4	0.5	16.5
MAR-031	4.4	<0.2	13.5	0.2	2.8	0.5	13.0
MAR-032	7.5	<0.2	10.5	0.2	3.4	0.5	17.0
MAR-033	9.0	0.2	13.0	0.3	2.2	<0.5	15.5
MAR-034	13.5	0.4	13.5	0.2	3.2	0.5	14.0
MAR-035	23.0	<0.2	11.0	0.3	9.0	3.5	17.0
MAR-036	21.0	0.4	15.5	0.3	6.5	1.0	27.0
MAR-037	30.0	0.2	12.0	0.9	12.0	2.0	21.5
MAR-038	18.5	0.2	14.5	0.4	2.6	<0.5	23.5
MAR-039	13.0	0.4	18.0	0.7	5.5	1.0	19.5
MAR-040	9.0	<0.2	10.5	0.3	4.6	1.0	14.5
MAR-041	17.0	0.4	17.5	0.1	12.0	2.0	17.5
MAR-042	13.5	0.4	16.0	0.8	14.0	2.5	21.0
MAR-043	9.0	<0.2	6.0	0.3	2.6	<0.5	8.5
MAR-044	24.5	1.2	17.5	0.6	11.0	2.0	17.0
MAR-045	7.5	<0.2	7.5	0.4	14.5	2.5	18.5
MAR-046	8.0	<0.2	8.5	0.3	5.0	1.0	24.0
MAR-047	13.0	0.2	10.0	0.2	6.5	1.0	22.0
MAR-048	8.5	<0.2	9.0	0.2	2.9	0.5	16.0
MAR-049	11.0	0.8	15.0	0.5	8.5	1.5	11.5
MAR-050	3.3	<0.2	8.5	0.1	2.7	<0.5	15.5
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.1	0.2	0.1	0.1	0.1	0.5	0.1
SCHEME	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M

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SAMPLE	Sr	Te	Th	Tl	U	W	Y
MAR-051	16.0	<0.2	6.0	0.3	13.0	2.5	21.0
MAR-052	27.5	<0.2	3.7	<0.1	9.0	1.5	19.5
MAR-053	19.0	<0.2	10.5	0.2	10.5	2.0	25.5
MAR-054	6.5	<0.2	0.7	<0.1	15.5	3.0	10.5
MAR-055	8.0	0.2	8.5	0.3	5.5	1.0	27.0
MAR-056	65	<0.2	0.8	7.5	12.5	2.5	9.0
MAR-057	8.0	0.4	1.6	0.1	20.0	3.5	55
MAR-058	7.0	<0.2	1.1	<0.1	3.6	0.5	9.5
MAR-059	18.5	0.4	15.0	2.0	11.5	2.0	21.5
MAR-060	6.5	<0.2	1.6	0.1	4.8	1.0	18.5
MAR-061	3.2	<0.2	1.8	<0.1	1.2	<0.5	5.5
MAR-062	110	0.4	31.5	5.5	25.0	4.5	33.0
MAR-063	30.5	<0.2	15.5	0.8	4.8	1.0	16.5
MAR-064	24.0	<0.2	21.5	0.5	6.0	1.0	24.5
MAR-065	21.0	<0.2	11.5	0.1	4.6	1.0	16.0
MAR-066	17.5	<0.2	15.0	0.2	3.6	0.5	14.5

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.1	0.2	0.1	0.1	0.1	0.5	0.1
SCHEME	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M	IC3M

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SAMPLE	Dy	Er	Eu	Gd	Ho	Lu	Nd
MAR-001	2.00	1.30	0.48	1.90	0.40	0.70	8.5
MAR-002	2.0	1.30	0.34	1.70	0.40	4.4	10.0
MAR-003	2.2	1.25	0.50	2.7	0.40	0.22	20.5
MAR-004	2.2	1.40	0.50	2.2	0.46	0.44	13.5
MAR-005	2.3	1.40	0.54	2.4	0.48	0.24	13.5
MAR-006	4.3	2.5	1.00	4.6	0.82	0.38	31.5
MAR-007	2.2	1.20	0.76	3.1	0.42	3.4	21.5
MAR-008	2.0	1.25	0.46	2.2	0.40	0.20	14.0
MAR-009	5.5	3.2	1.60	7.0	1.15	0.46	47.0
MAR-010	3.7	2.2	0.90	4.1	0.72	0.32	25.5
MAR-011	3.0	1.90	0.64	2.8	0.60	0.30	17.0
MAR-012	1.65	1.15	0.30	1.30	0.34	0.20	5.5
MAR-013	2.0	1.35	0.38	1.65	0.42	0.28	5.5
MAR-014	2.7	1.85	0.58	2.4	0.56	2.4	10.5
MAR-015	2.2	1.55	0.44	1.90	0.46	0.26	9.5
MAR-016	2.9	1.95	0.70	2.8	0.60	0.30	13.5
MAR-017	2.9	1.90	0.72	2.8	0.58	0.30	17.5
MAR-018	3.3	2.1	0.98	4.1	0.66	0.30	27.0
MAR-019	3.3	2.2	0.68	3.0	0.68	0.34	13.5
MAR-020	3.5	2.3	0.84	3.4	0.72	0.42	17.0
MAR-021	5.5	3.3	1.90	7.5	1.10	0.44	60
MAR-022	2.7	1.75	0.70	2.8	0.56	0.26	15.5
MAR-023	4.1	2.6	1.10	4.5	0.82	0.52	28.5
MAR-024	4.3	2.7	1.20	4.8	0.86	0.50	30.5
MAR-025	2.3	1.60	0.48	2.00	0.50	0.28	7.5
MAR-026	2.3	1.55	0.42	1.85	0.48	0.24	7.5
MAR-027	3.4	2.2	0.76	3.2	0.70	0.36	18.5
MAR-028	2.3	1.60	0.48	2.1	0.48	0.28	7.5
MAR-029	2.7	1.85	0.62	2.6	0.56	0.32	13.0
MAR-030	2.6	1.70	0.66	2.7	0.54	0.28	15.0
MAR-031	1.90	1.35	0.28	1.50	0.42	0.32	4.0
MAR-032	2.8	1.85	0.70	2.7	0.58	0.38	16.5
MAR-033	2.7	1.90	0.54	2.1	0.58	0.86	8.0
MAR-034	2.4	1.60	0.64	2.7	0.48	0.26	14.5
MAR-035	3.3	1.95	1.05	4.5	0.64	0.24	24.0
MAR-036	3.9	2.6	0.90	4.1	0.82	0.34	24.5
MAR-037	3.1	1.85	0.96	4.3	0.62	0.24	26.5
MAR-038	3.4	2.4	0.70	3.0	0.74	0.34	13.5
MAR-039	3.6	2.4	0.66	3.4	0.72	0.36	23.0
MAR-040	2.7	1.85	0.52	2.4	0.56	0.34	14.5
MAR-041	3.0	2.1	0.52	2.6	0.62	3.5	15.5
MAR-042	4.1	2.4	1.00	4.9	0.78	0.34	28.0
MAR-043	1.60	1.05	0.34	1.65	0.32	0.54	9.5
MAR-044	3.1	2.1	0.72	3.1	0.64	0.36	21.5
MAR-045	2.3	1.75	0.50	2.2	0.52	0.26	11.0
MAR-046	4.7	2.7	1.25	5.0	0.90	0.34	28.5
MAR-047	3.7	2.3	1.05	4.3	0.74	0.34	23.5
MAR-048	2.5	1.70	0.56	2.4	0.52	0.28	14.0
MAR-049	2.1	1.55	0.42	1.75	0.44	0.32	12.0
MAR-050	2.2	1.55	0.42	2.0	0.48	0.26	10.0
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.02	0.05	0.02	0.05	0.02	0.02	0.02
SCHEME	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R

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SAMPLE	Dy	Er	Eu	Gd	Ho	Lu	Nd
MAR-051	2.5	1.50	0.84	3.4	0.50	0.16	18.0
MAR-052	2.3	1.40	0.94	3.2	0.48	0.14	18.0
MAR-053	3.6	2.4	1.00	4.4	0.74	0.36	24.0
MAR-054	1.05	0.90	0.30	1.15	0.26	0.12	5.0
MAR-055	4.1	2.7	0.96	4.6	0.86	0.40	23.5
MAR-056	1.20	0.85	0.26	1.10	0.30	0.08	5.0
MAR-057	7.5	5.5	0.76	5.5	1.75	0.74	9.0
MAR-058	1.25	1.05	0.16	0.75	0.30	7.5	2.4
MAR-059	4.0	2.4	1.10	5.0	0.78	0.40	29.0
MAR-060	3.0	1.90	0.86	3.9	0.62	2.8	18.5
MAR-061	0.70	0.45	0.22	0.80	0.14	3.7	5.5
MAR-062	5.5	3.1	1.25	6.0	1.05	0.32	24.0
MAR-063	3.2	1.95	0.68	3.4	0.62	0.82	18.5
MAR-064	4.2	2.8	0.82	4.5	0.86	0.48	26.0
MAR-065	2.7	1.90	0.54	2.8	0.56	0.32	16.5
MAR-066	2.8	1.85	0.56	2.8	0.56	0.30	15.5

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.02	0.05	0.02	0.05	0.02	0.02	0.02
SCHEME	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R	IC3R

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A M D E L

SAMPLE	Au	Au Rpt	Zn
MAR-001	<0.01	--	35
MAR-002	<0.01	--	10
MAR-003	<0.01	--	28
MAR-004	<0.01	--	20
MAR-005	<0.01	--	28
MAR-006	0.01	--	5
MAR-007	<0.01	--	150
MAR-008	<0.01	--	12
MAR-009	0.02	--	13
MAR-010	<0.01	--	11
MAR-011	<0.01	--	5
MAR-012	<0.01	--	19
MAR-013	<0.01	--	15
MAR-014	<0.01	--	37
MAR-015	<0.01	--	27
MAR-016	<0.01	--	41
MAR-017	<0.01	--	28
MAR-018	<0.01	--	55
MAR-019	<0.01	--	50
MAR-020	<0.01	--	60
MAR-021	<0.01	--	37
MAR-022	<0.01	--	46
MAR-023	<0.01	--	13
MAR-024	0.01	--	30
MAR-025	<0.01	--	44
MAR-026	<0.01	<0.01	90
MAR-027	<0.01	--	10
MAR-028	<0.01	--	21
MAR-029	<0.01	--	70
MAR-030	<0.01	--	90
MAR-031	<0.01	--	20
MAR-032	<0.01	--	12
MAR-033	<0.01	--	42
MAR-034	<0.01	--	43
MAR-035	<0.01	--	315
MAR-036	0.01	--	40
MAR-037	<0.01	--	170
MAR-038	<0.01	--	70
MAR-039	<0.01	--	17
MAR-040	<0.01	--	8
MAR-041	0.02	--	22
MAR-042	<0.01	--	26
MAR-043	<0.01	--	7
MAR-044	<0.01	<0.01	37
MAR-045	0.01	--	2000
MAR-046	0.01	--	21
MAR-047	<0.01	--	70
MAR-048	<0.01	--	9
MAR-049	<0.01	--	11
MAR-050	<0.01	--	15
UNITS	ppm	ppm	ppm
DET.LIM	0.01	0.01	2
SCHEME	FA1	FA1	IC3E

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A M D E L

SAMPLE	Au	Au Rpt	Zn
MAR-051	< 0.01	--	425
MAR-052	< 0.01	--	445
MAR-053	0.02	--	165
MAR-054	< 0.01	--	1000
MAR-055	0.02	--	215
MAR-056	< 0.01	--	950
MAR-057	0.03	--	1000
MAR-058	< 0.01	--	14
MAR-059	< 0.01	--	90
MAR-060	< 0.01	--	140
MAR-061	0.01	< 0.01	12
MAR-062	< 0.01	--	900
MAR-063	< 0.01	--	55
MAR-064	< 0.01	--	32
MAR-065	< 0.01	--	48
MAR-066	< 0.01	--	26

UNITS	ppm	ppm	ppm
DET.LIM	0.01	0.01	2
SCHEME	FA1	FA1	IC3E

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SAMPLE	Pr	Sm	Tb	Tm	Yb
MAR-001	2.3	1.85	0.30	0.20	1.35
MAR-002	3.4	1.75	0.30	0.20	1.45
MAR-003	6.0	3.4	0.38	0.20	1.25
MAR-004	3.9	2.3	0.36	0.20	1.45
MAR-005	3.6	2.5	0.38	0.20	1.45
MAR-006	8.5	5.5	0.72	0.35	2.5
MAR-007	5.5	3.6	0.40	0.15	1.15
MAR-008	3.8	2.4	0.34	0.20	1.30
MAR-009	12.5	8.5	1.00	0.45	2.9
MAR-010	6.5	4.7	0.64	0.30	2.1
MAR-011	4.7	3.2	0.48	0.30	1.90
MAR-012	1.50	1.25	0.24	0.15	1.25
MAR-013	1.40	1.55	0.30	0.20	1.50
MAR-014	2.9	2.3	0.42	0.25	1.90
MAR-015	2.6	2.0	0.36	0.25	1.65
MAR-016	3.6	2.7	0.44	0.30	1.90
MAR-017	4.6	3.2	0.46	0.25	1.85
MAR-018	7.5	4.5	0.58	0.30	1.95
MAR-019	3.5	2.7	0.50	0.30	2.1
MAR-020	4.5	3.4	0.56	0.35	2.4
MAR-021	13.5	9.0	1.00	0.45	2.9
MAR-022	4.1	3.0	0.44	0.25	1.70
MAR-023	7.5	5.5	0.70	0.35	2.6
MAR-024	8.0	6.0	0.74	0.40	2.6
MAR-025	1.95	1.85	0.36	0.25	1.75
MAR-026	1.95	1.70	0.34	0.20	1.50
MAR-027	5.0	3.6	0.56	0.35	2.3
MAR-028	1.85	1.95	0.36	0.25	1.75
MAR-029	3.7	2.4	0.42	0.25	1.90
MAR-030	4.0	2.8	0.42	0.25	1.70
MAR-031	0.95	1.25	0.30	0.20	1.40
MAR-032	4.3	3.2	0.44	0.25	1.95
MAR-033	2.1	1.80	0.40	0.30	2.4
MAR-034	3.8	2.8	0.40	0.20	1.55
MAR-035	6.0	5.0	0.62	0.25	1.70
MAR-036	6.5	4.1	0.64	0.35	2.3
MAR-037	6.5	4.3	0.58	0.25	1.55
MAR-038	3.6	2.8	0.52	0.35	2.2
MAR-039	6.0	4.0	0.58	0.35	2.3
MAR-040	4.3	2.5	0.42	0.25	1.85
MAR-041	4.4	2.5	0.46	0.30	2.2
MAR-042	7.5	5.0	0.72	0.30	2.1
MAR-043	2.7	1.65	0.26	0.15	1.05
MAR-044	6.0	3.3	0.48	0.30	2.1
MAR-045	2.9	1.95	0.34	0.25	1.60
MAR-046	7.0	5.5	0.80	0.35	2.3
MAR-047	5.5	4.5	0.64	0.30	2.1
MAR-048	3.9	2.5	0.40	0.25	1.75
MAR-049	3.8	1.85	0.32	0.25	1.75
MAR-050	2.9	1.80	0.34	0.20	1.60
UNITS	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.05	0.02	0.02	0.05	0.05
SCHEME	IC3R	IC3R	IC3R	IC3R	IC3R

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SAMPLE	Pr	Sm	Tb	Tm	Yb
MAR-051	4.1	3.2	0.44	0.20	1.10
MAR-052	4.7	2.7	0.40	0.15	0.95
MAR-053	6.5	4.5	0.62	0.35	2.3
MAR-054	1.20	1.00	0.16	0.10	0.75
MAR-055	7.5	3.9	0.68	0.35	2.4
MAR-056	1.35	0.94	0.18	0.10	0.60
MAR-057	2.0	2.2	0.98	0.75	4.7
MAR-058	0.70	0.58	0.16	0.15	1.15
MAR-059	7.5	5.5	0.72	0.30	2.2
MAR-060	4.1	3.8	0.52	0.25	1.45
MAR-061	1.35	0.90	0.10	0.05	0.40
MAR-062	6.5	4.7	0.90	0.35	2.2
MAR-063	5.0	3.5	0.54	0.30	1.95
MAR-064	7.0	4.8	0.70	0.40	2.9
MAR-065	4.7	2.9	0.44	0.30	1.95
MAR-066	4.4	2.8	0.46	0.25	1.90

UNITS	ppm	ppm	ppm	ppm	ppm
DET.LIM	0.05	0.02	0.02	0.05	0.05
SCHEME	IC3R	IC3R	IC3R	IC3R	IC3R