Appendix J

Methodology & Rationale for Metallurgical Sample Preparation

MEMORANDUM

TO: File **DATE:** July 21, 2000

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FROM: Eric Konigsmann

RE: **Methodology and Rationale for Metallurgical Sample Preparation**

Summary and Introduction

The purpose of this memorandum is to summarize the methodology and rationale for sample composite preparation for phases 1, 2 and 3 of the metallurgical testwork conducted at Lakefield Research between 1997 and 1999. A total of 4 sample composites were prepared and the details of each composite preparation are provided in this memo.

The key person involved in the selection of samples to make up the metallurgical composite samples was Mr. Peter McPhail, Senior Project Metallurgist of Teck Corporation. The principal contact at Lakefield Research, where the composites were prepared, was Keith Sarbutt, the manager of the mineral processing department. Other personnel involved in the collection and shipping of samples to Lakefield Research were Jack DiMarchi, Pogo project site geologist, and Tom Corbett at WGM Inc. in Fairbanks, Alaska.

1.0 Phase 1 Test Program. Composite 1

1.1 Sample Design

P.McPhail reviewed the entire geological database containing drill hole data from 1995-1997 drilling programs. The database was sorted according to "vein codes" 1 and 3 which represented holes that contained economic values of gold. Vein code 1 represented the L1 vein, while code 3 represented the L2 vein.

P.McPhail generated a table of drill hole assay data with a total of 54 drill holes that had intervals with economic gold values. The interval width was not considered at this point since the samples were to be used for scoping level metallurgical testing only. The objective was to evaluate the metallurgical response of Pogo ore to a variety of processing options including whole ore cyanidation, gravity recovery, flotation and combinations of these processes.

The samples for composite 1 were taken from exploration drill holes that were drilled between 1996 and 1997 with the majority being from the 1997 drilling program. The samples primarily intersected the L1 vein of the Pogo ore deposit.

1.2 Rationale Used to Prepare Composite 1

Intervals for each drill hole in the database(file P1comps in appendix) was assessed according to the following criteria:

a) 15 foot interval width, 90% sample availability from holes, and economic ore grade.
b) Uneconomic interval due to low footage and/or low grade.
c) Poor sample availability for selected interval.
d) Less than 90% sample availability but good grade and reasonable sample availability.

Using these criteria, of the 54 intervals originally identified, there were 27 intervals that met criterion (a) or (d) above. There was a limited amount of quarter core available from the 1995, 96 and 97 drilling campaigns and one issue which had to be resolved was whether the metallurgical response of this quarter core would be similar to the response of drill hole samples. Of the 27 selected intervals, 3 were used for comparison of metallurgical response (flotation and whole ore cyanidation) with quarter core samples from the same intervals. This comparison showed that the 1995 quarter core and drill hole sample metallurgical response was not exactly comparable. Therefore, it was decided to exclude the drill hole samples from the 1995 program in preparing composite 1. This resulted in the exclusion of 3 sample intervals from the 27 intervals selected leaving a total of 24 interval samples. One additional interval sample was rejected from the 1996 drilling campaign due to sub-economic gold grade leaving 23 intervals for the preparation of composite 1.

Table 1 lists the samples that were used in preparation of composite 1. A more detailed listing of individual hole assays for each interval is provided in the appendix.

Table 1: Composite 1 Drill Holes Samples

Sample ID	Sample Wt kg	Au g/t	Au dup g/t	Au g/t Avg.	As %	S %	Cu %	C(g) %
Comp 96-21-1-R	2	8.79	8.77	8.78	1.64	1.30	0.008	0.01
Comp 96-22-1-R	4	29.5	30.2	29.9	0.72	1.16	0.009	0.02
Comp 96-24-1-R	1	121	117	119	0.25	2.45	0.026	0.02
Comp 96-25-1-R	5	14.3	15.2	14.8	0.03	0.62	0.008	0.02
Comp 96-26-1-R	8	3.07	2.84	2.95	0.06	0.47	0.004	0.01
Comp 96-36-1-R	22	13.7	14.5	14.1	0.46	0.74	0.005	0.02
Comp 96-37-2-R	5	21.7	23.3	22.5	1.26	0.84	0.004	0.04
Comp 96-27-1-R	1	6.88	6.75	6.82	1.13	0.77	0.003	0.04
Comp 97-50-1-R	9	19.6	19.6	19.6	0.61	0.65	0.009	0.02
Comp 97-51-1-R	4	14.0	14.4	14.2	0.16	0.43	0.005	0.03
Comp 97-55-1-R	8	7.00	6.63	6.82	0.92	0.59	0.004	0.01
Comp 97-58-1-R	7	7.60	8.26	7.93	1.14	1.26	0.017	0.01
Comp 97-61-1-R	5	4.37	4.03	4.20	0.18	0.38	0.001	0.03
Comp 97-63-1-R	2	5.67	5.49	5.58	0.70	1.04	0.002	0.02
Comp 97-64-2-R	1	14.9	13.6	14.3	0.17	0.39	0.003	0.02
Comp 97-67-1-R	3	7.25	7.29	7.27	0.22	0.76	0.009	0.09
Comp 97-70-1-R	4	6.74	6.28	6.51	0.24	0.44	0.005	0.02
Comp 97-70-2-R	8	15.6	15.1	15.4	0.74	0.61	0.005	0.03
Comp 97-71-1-R	4	13.9	13.8	13.8	0.23	0.79	0.007	0.01
Comp 97-71-2-R	12	12.0	9.92	11.0	0.71	0.49	0.004	0.02
Comp 97-73B-1-R	8	11.4	9.61	10.5	0.12	0.64	0.005	0.02
Comp 97-77-1-R	3	11.9	12.4	12.1	0.15	0.72	0.007	0.04
Comp 97-78-2-R	2	6.05	5.86	5.96	0.72	0.62	0.004	0.02
Total (calc assay)	128			13.0	0.53	0.70	0.006	0.022
Composite 1 (direct)				12.2	0.48	0.59	0.005	-

2.0 Phase 2 Test Program. Composites 2 and 3

2.1 Sample Design

Composites 2 and 3 were made up exclusively using samples from the 1997 drilling campaign and were used for phase 2 of the metallurgical test program at Lakefield Research conducted in 1998.

The drill holes selected were widely spaced exploration holes only since this is what was available at that time. The "in-fill" drilling to reduce hole spacing from 400 feet by 400 feet to 200 feet by 200 feet had not been done yet.

The majority of the holes intersected the L1 vein of the Pogo deposit with only three intersecting the L2 vein. In order to account for mining dilution, economic vein intervals were expanded to account for approximately 15% dilution from the

hanging wall and footwall combined.(see appendix for details in memo to file by P.Macphail)

Composite 2 and 3 were based on the same drill hole assay samples. Composite 2 was a small sample weighing 33 kg that was prepared to perform some confirmatory flotation and whole ore cyanidation tests to compare to the results obtained during phase 1 of the metallurgical test program. Composite 3 was a larger sample weighing about 155 kgs and was used for most of the phase 2 metallurgical work.

2.2 Rationale Used for Preparing Composites 2 and 3

A total of 22 drill holes were identified from the 1997 exploration drilling campaign based on economic gold grades and vein widths for the L1 and L2 veins. This represented about 50% of the drill holes that had been drilled during the 1997 season. The 22 drill intervals were sent to Lakefield Research as quarter core samples representing a total sample weight of 204 kgs.

After re-assaying the 22 sets of quarter core samples, it was decided to drop three of the intervals to increase the overall grade of the composites to the average reserve grade. (The three intervals dropped had mineable widths but the gold grades ranged between 1.4 and 3.1 grams per tonne.) This reduced the total weight of sample available for compositing by about 30 kg leaving approximately 175 kg to prepare a composite for metallurgical testing.

The 19 remaining drill sample intervals were used to prepare a 33 kg composite sample based on the respective weights of individual drill interval quarter core rejects. This was labelled Composite 2 and it was used to perform a series of confirmatory flotation and whole ore cyanidation tests. Only 13 kg of this sample were used so the remaining 20 kg were set aside.

Using the same 19 drill interval quarter core samples described above, another composite sample was prepared using the same weight splits as for composite 2. The remaining 20 kg of composite 2 was also added to the new composite which was labelled Composite 3. It had a total weight of approximately 155 kgs.

Tables 2 and 3 list the samples that were used in the preparation of composites 2 and 3 respectively.

Table 2: Composite 2 Drill Hole Samples

Sample ID	Wt kg	Au g/t	Ag g/t	Fe %	S %	As %	Bi %
97-41-1	0.5	17.3	3.7	2.15	1.44	0.45	0.008
97-61-1	0.5	4.30	2.8	1.39	0.40	0.13	0.002
97-55-2	1	25.0	2.2	0.95	0.40	0.53	0.008
97-45-1	1.5	9.32	2.5	3.09	0.63	0.56	0.003
97-43-1	0.5	16.1	1.5	2.07	0.42	0.005	0.009
97-50-1	2.5	22.8	1.7	2.43	0.57	0.45	0.007
97-51-1	2.5	22.8	2.5	2.58	0.48	0.25	0.006
97-55-1	3	7.02	2.0	2.57	0.71	0.87	0.002
97-60-1	2	7.10	1.3	2.62	0.56	0.72	0.002
97-64-1	1	12.1	2.2	4.18	0.82	0.38	0.004
97-64-2	0.5	21.6	1.7	1.51	0.68	0.26	0.01
97-68-1	4	6.20	1.5	0.64	0.14	0.019	0.002
97-71-1	3	17.4	1.7	2.07	1.05	0.22	0.01
97-71-2	4	10.8	0.05	3.63	0.54	0.55	0.002
97-73b-1	2.5	8.33	1.2	1.08	0.73	0.089	0.003
97-77-1	1.5	12.7	6.5	2.36	0.67	0.080	0.007
97-78-1	0.5	8.13	0.5	1.49	0.27	0.10	0.002
97-78-2	1	15.0	2.3	1.34	0.40	0.14	0.006
97-79-1	1	4.86	0.8	2.02	0.25	0.37	0.002
Totals	**33.0**	**12.55**	**1.8**	**2.19**	**0.58**	**0.36**	**0.004**

Table 3: Composite 3 Drill Hole Samples

Sample ID	Interval From ft.	Interval To ft.	Wt kg	Assays Au g/t	Ag g/t	Fe %	S %	As %	Bi %
97-41-1	939.5	958.5	2.1	17.3	3.7	2.15	1.44	0.45	0.008
97-61-1	367.0	393.5	4.2	4.30	2.8	1.39	0.40	0.13	0.002
97-55-2	799.0	814.5	2.2	25.0	2.2	0.95	0.40	0.53	0.008
97-45-1	1059.0	1089.1	3.8	9.32	2.5	3.09	0.63	0.56	0.003
97-43-1	570.6	580.6	1.2	16.1	1.5	2.07	0.42	0.005	0.009
97-57-1	636.5	662.5	6.0	3.08	1.5	2.89	0.15	0.11	0.002
97-50-1	471.0	517.0	8.4	22.8	1.7	2.43	0.57	0.45	0.007
97-51-1	897.6	931.5	7.0	22.8	2.5	2.58	0.48	0.25	0.006
97-55-1	421.0	464.5	10.3	7.02	2.0	2.57	0.71	0.87	0.002
97-60-1	651.0	677.0	4.9	7.10	1.3	2.62	0.56	0.72	0.002
97-63-1	604.0	639.0	0.0	2.59	5.2	2.61	0.52	0.40	0.002
97-64-1	363.0	392.0	4.0	12.1	2.2	4.18	0.82	0.38	0.004
97-64-2	831.5	842.7	2.3	21.6	1.7	1.51	0.68	0.26	0.01
97-66-1	737.8	757.0	0.0	1.44	1.0	1.79	0.36	0.07	0.002
97-68-1	960.0	1042.0	16.1	6.20	1.5	0.64	0.14	0.019	0.002
97-71-1	741.8	801.3	10.8	17.4	1.7	2.07	1.05	0.22	0.01
97-71-2	1349.0	1412.0	20.8	10.8	0.05	3.63	0.54	0.55	0.002
97-73b-1	874.5	924.1	9.4	8.33	1.2	1.08	0.73	0.089	0.003
97-77-1	719.6	747.5	7.1	12.7	6.5	2.36	0.67	0.080	0.007
97-78-1	541.5	552.0	1.8	8.13	0.5	1.49	0.27	0.10	0.002
97-78-2	884.5	909.5	4.7	15.0	2.3	1.34	0.40	0.14	0.006
97-79-1	1284.0	1316.7	7.7	4.86	0.8	2.02	0.25	0.37	0.002
Composite 2			20.0	12.55	1.8	2.19	0.58	0.36	0.004
Composite 3 (calculated)			154.8	11.58	1.8	2.23	0.55	0.34	0.004
Composite 3 (Assay)			154.8	10.70	<0.5	2.36	0.52	0.44	0.004

3.0 Phase 3 Test Program. Composite 4

3.1 Sample Design

The composite 4 metallurgical sample was prepared using drilling samples from the 1998 exploration drilling campaign. This was the biggest campaign conducted to date with a lot of "in-fill" drilling through both the L1 and L2 veins resulting in the most extensive coverage of the known ore deposits to date.

Both quarter core and bulk assay rejects were used in the composite 4 preparation. The same samples from both quarter core and drill hole rejects were obtained from the minesite and shipped to Lakefield for compositing. The objective was to show

that a composite sample prepared using either quarter core or drill hole rejects would result in a sample with similar headgrades. An analysis of the data in Tables 4 and 5 below showed that this was indeed the case. Since the quarter core represented a much smaller weight of sample than the bulk assay rejects, the weighting of quarter core in the final composite was correspondingly reduced.

All of the drill hole samples that fell within a preliminary mineable reserve were included in the composite preparation regardless of grade. This was done to ensure that the composite sample would be as representative as possible of the ore that would be fed to the mill during future mine operation.

3.2 Rationale Used to Prepare Composite 4

Given the number of in-fill holes that were available for the L1 Vein, it was sub-divided into 4 major zones called L1C-North, L1C-South, L1C-Central, and L1C-East. No particular criteria were used to perform the sub-division other than to ensure that a similar number of drill holes were used from each of the areas.

The number of drill intervals identified for the L1 vein was 41 in total with the breakdown as follows:

Quarter Core	Bulk Assay Rejects
L1C North – 10 drill intervals	L1R North – 10 drill intervals
L1C South – 11 drill intervals	L1R South – 11 drill intervals
L1C Central – 9 drill intervals	L1R Central – 9 drill intervals
L1C East – 11 drill intervals.	L1R East – 11 drill intervals

The L2 vein was not sub-divided as above and a total of 6 drill intervals were identified as mineable ore from this area. Both quarter core and bulk assay rejects were used in this case as well. The L2 drill intervals were included in the preparation of composite 4 bringing the total number of drill intervals to 47. Composite 4 was therefore prepared using weight percentages of individual drill hole sample weights from each of the zones as a basis for combining the samples into one composite. (see table 6)

Table 4 Quarter Core Used for Composite 4 Preparation

Zone Composite	Sample ID	Interval			Wt. At LR Kg	Interval Comp - 1/2 inch Kg	Zone Comp - 1/2 inch Kg	Assays	
		From	To	Feet				Au (oz/t)	As(%)
L1-C-north	98-089-1	1390.2	1403.4	13.2	3.3		3.3	1.757	1.59
	98-097-1	903.5	919.3	15.8	4.9		4.9	0.128	0.00
	98-105-1	432.0	445.2	13.2	3.6		3.6	0.111	0.37
	98-109-1	476.5	505.0	28.5	9.4	4	5.4	0.576	0.15
	98-118-1	535.0	549.1	14.1	4.7		4.7	0.368	0.47
	98-119-1	743.4	763.7	20.3	6.4	4	2.4	0.128	0.04
	98-124-1	533.6	548.7	15.1	3.7		3.7	0.623	0.79
	98-133-1	633.4	647.7	14.3	4.3		4.3	0.232	0.11
	98-146-1	621.7	638.2	16.5	5.7	4	1.7	1.238	1.21
	98-151-1	535.3	550.6	15.3	6	4	2	0.356	0.44
Total/Average							**36**	**0.502**	**0.45**
L1-C-south	98-090-1	710.8	735.2	24.4	5.8	4	1.8	0.313	0.21
	98-103-1	788.4	802.8	14.4	4.6		4.6	0.334	0.02
	98-104-1	518.5	532.0	13.5	4.1		4.1	0.221	0.09
	98-107-1	898.4	914.6	16.2	4.4		4.4	0.176	0.44
	98-113-1	957.4	973.5	16.1	5.4	4	1.4	0.394	0.15
	98-116-1	771.6	783.6	12.0	4		4	0.293	0.11
	98-141-1	619.9	639.4	19.5	5.6	4	1.6	1.459	1.06
	98-149-1	570.9	586.2	15.3	5.1	4	1.1	0.253	0.01
	98-152-1	694.1	705.0	10.9	3.3		3.3	0.257	0.10
	98-170-1	527.4	542.4	15.0	2.5		2.5	0.541	0.93
	98-174-1	587.2	619.9	32.7	10.4	4	6.4	0.333	0.05
Total/Average							**35.2**	**0.354**	**0.23**
L1-C-east	98-092-1	627.4	654.0	26.6	7	4	3	1.368	0.93
	98-098-1	375.7	399.4	23.7	7	4	3	1.246	0.72
	98-101-1	461.8	480.1	18.3	5.1	4	1.1	0.661	0.26
	98-102-1	382.5	404.7	22.2	5.2	4	1.2	1.003	0.22
	98-139-1	420.9	438.0	17.1	3.9		3.9	0.372	0.71
	98-142-1	384.5	397.5	13.0	5.7	4	1.7	1.279	0.25
	98-150-1	471.2	487.9	16.7	3.8		3.8	1.076	1.08
	98-158-1	370.1	382.6	12.5	4.4		4.4	0.484	0.79
	98-166-1	347.2	373.0	25.8	8.4	4	4.4	0.300	0.38
	98-167-1	296.6	314.4	17.8	5.8	4	1.8	0.521	1.27
	98-171-1	395.6	408.9	13.3	3.7		3.7	0.171	0.92
Total/Average							**32**	**0.703**	**0.74**

Table 4 Quarter Core Used for Composite 4 Preparation (Cont'd)

Zone Composite	Sample ID	Interval			Wt. At LR Kg	Interval Comp - 1/2 inch Kg	Zone Comp - 1/2 inch Kg	Assays	
		From	To	Feet				Au (oz/t)	As(%)
L1-C-central	98-084-1	947.4	993.5	46.1	9.7	4	5.7	0.303	1.07
	98-088-1	926.4	959.4	33.0	8.9	4	4.9	0.513	0.41
	98-129-1	639.3	670.5	31.2	6	4	2	0.323	0.24
	98-138-1	1203.4	1218.8	15.4	5.8	4	1.8	0.203	0.36
	98-148-1	1084.1	1107.5	23.4	7.4	4	3.4	0.264	0.45
	98-154-1	1042.0	1055.0	13.0	8	4	4	0.259	0.41
	98-157-1	1255.1	1359.0	103.9	32.6	4	28.6	0.651	0.31
	98-163-1	1006.2	1027.2	21.0	6	4	2	0.173	0.06
	98-172-1	679.7	704.7	25.0	8.7	4	4.7	0.482	0.58
Total/Average							**57.1**	**0.498**	**0.42**
L2-C-all	98-087-2	1009.5	1031.9	22.4	3.9		3.9	0.583	4.00
	98-091-2	738.6	758.2	19.6	5	4	1	0.196	0.04
	98-098-2	709.6	732.8	23.2	6	4	2	1.462	1.63
	98-102-2	718.8	745.8	27.0	7.8	4	3.8	0.771	0.99
	98-171-2	649.8	677.7	27.9	8.4	4	4.4	0.286	0.28
Total/Average							**15.1**	**0.635**	**1.58**

Table 5 Drill Hole Assay Rejects Used for Composite 4 Preparation

Zone Composite	Sample ID	Weight Kg	Assays	
			Au (oz/ton)	As (%)
L1-R-north	98-089-1-R	10.1	1.53	1.33
	98-097-1-R	11.4	0.09	0.00
	98-105-1-R	4.7	0.12	0.42
	98-108-1-R	10.2	0.56	0.21
	98-109-1-R	14.9	0.62	0.14
	98-112-1-R	3.6	0.02	0.10
	98-118-1-R	11.9	0.25	0.30
	98-119-1-R	12.2	0.13	0.04
	98-122-1-R	8.0	0.00	0.01
	98-146-1-R	8.6	0.93	1.17
	98-151-1-R	5.4	0.53	0.50
Total/Average		**100.9**	**0.47**	**0.37**

Table 5 Drill Hole Assay Rejects Used for Composite 4 Preparation (cont'd)

Zone Composite	Sample ID	Weight Kg	Assays	
			Au (oz/ton)	As (%)
L1-R-south	98-083-1-R	14.4	0.07	0.00
	98-090-1-R	8.2	0.23	0.18
	98-094-1-R	6.4	0.04	0.00
	98-103-1-R	8.5	0.27	0.02
	98-104-1-R	11.3	0.19	0.08
	98-107-1-R	8.6	0.09	0.40
	98-111-1-R	6.2	0.03	0.01
	98-113-1-R	6.5	0.53	0.18
	98-116-1-R	8.6	0.20	0.10
	98-141-1-R	7.6	1.72	0.95
	98-144-1-R	10.4	0.69	0.34
	98-149-1-R	10.7	0.25	0.02
	98-152-1-R	7.4	0.20	0.16
	98-170-1-R	4.5	0.47	0.87
	98-174-1-R	9.4	0.32	0.08
Total/Average		**128.5**	**0.34**	**0.19**
L1-R-east	98-091-1-R	2.5	0.40	0.07
	98-092-1-R	17.2	1.26	0.85
	98-098-1-R	8.2	1.24	0.61
	98-101-1-R	9.4	0.61	0.24
	98-102-1-R	13.3	0.82	0.25
	98-139-1-R	5.5	0.38	0.74
	98-142-1-R	7.9	0.78	0.24
	98-150-1-R	4.7	1.10	1.28
	98-158-1-R	6.6	0.32	0.62
	98-166-1-R	14.2	0.23	0.32
	98-167-1-R	6.2	0.64	1.53
	98-169-1-R	6.5	0.04	0.04
	98-171-1-R	8.0	0.13	0.65
	98-173-1-R	7.2	0.38	0.60
	98-176-1-R	1.6	0.08	0.57
Total/Average		**119.0**	**0.64**	**0.56**
L1-R-central	98-084-1-R	29.9	0.30	1.05
	98-088-1-R	22.8	0.49	0.55
	98-129-1-R	11.1	0.32	0.26
	98-138-1-R	7.7	0.19	0.40
	98-148-1-R	10.3	0.39	0.64
	98-154-1-R	12.1	0.26	0.41
	98-157-1-R	49.1	0.54	0.26
	98-163-1-R	17.3	0.14	0.05
	98-172-1-R	6.5	0.31	1.28
Total/Average		**166.8**	**0.38**	**0.50**

Table 5 Drill Hole Assay Rejects Used for Composite 4 Preparation (cont'd)

Zone Composite	Sample ID	Weight Kg	Assays	
			Au (oz/ton)	As (%)
L2-R-all	98-087-2-R	13.8	0.41	2.16
	98-091-2-R	10.0	0.18	0.04
	98-098-2-R	12.6	1.13	1.67
	98-102-2-R	16.5	0.71	0.96
	98-139-2-R	4.4	0.28	1.36
	98-150-2-R	12.4	0.05	1.22
	98-158-2-R	14.8	0.63	0.77
	98-171-2-R	13.1	0.22	0.33
Total/Average		**97.6**	**0.48**	**1.06**

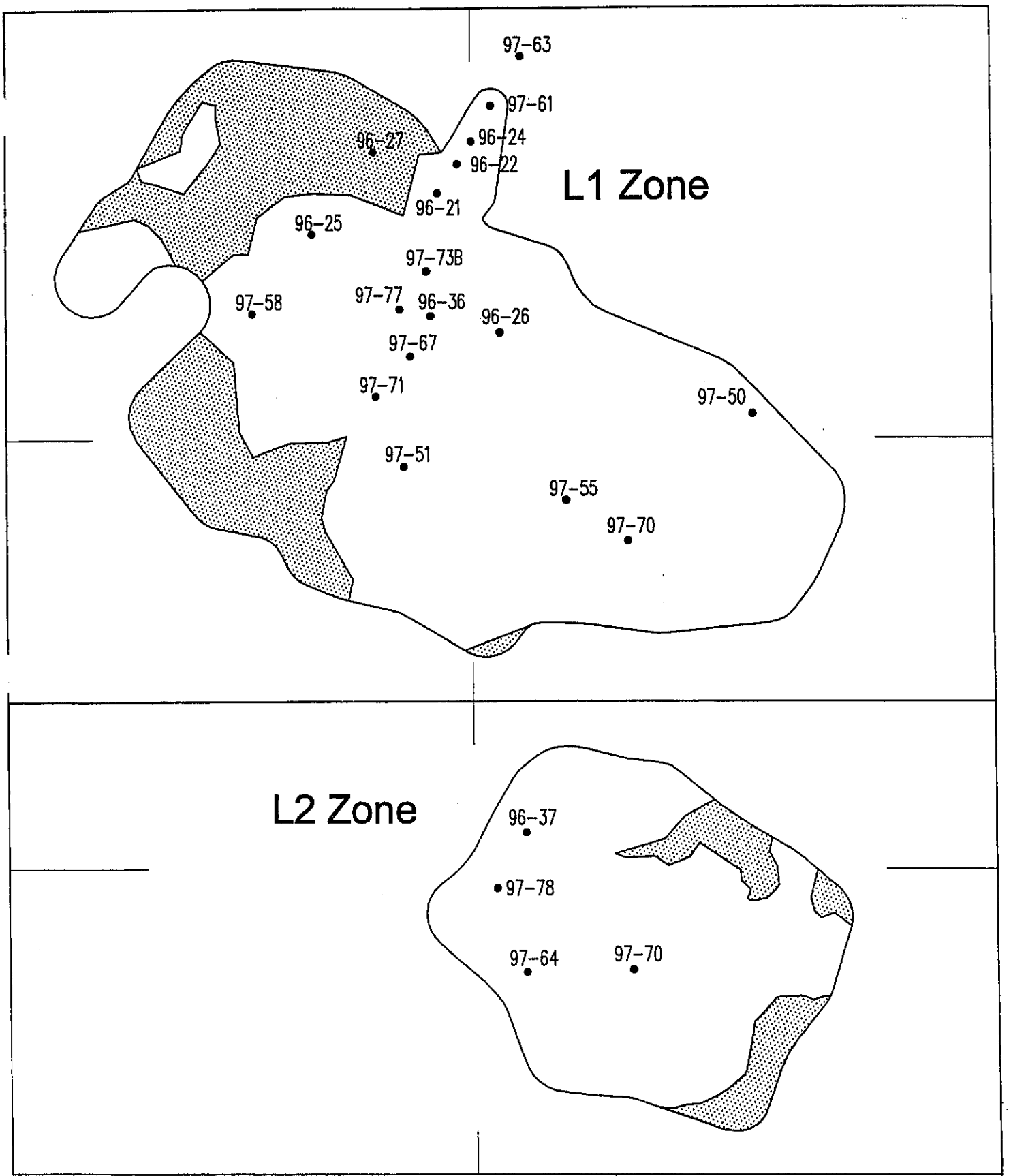
Table 6 Composite 4 Preparation

	Sample Weight		Comp 4 Weight		Assays				
	kg	Wt%	kg	Wt%	Au g/t	% As	Ag g/t	%S	% Fe
L1-R-North	102	13.5	26.90	13.5	15.7	0.37	1.2	0.83	2.34
L1-R-South	133	17.6	35.20	17.6	10.3	0.22	0.8	0.51	2.31
L1-R-East	121	16.1	32.15	16.1	22.6	0.61	3.3	0.79	2.83
L1-R-Central	168	22.3	44.53	22.3	12.3	0.58	1.5	0.73	2.32
L2-R-All	98	13.0	25.97	13.0	18.0	1.11	1.7	1.08	3.56
L1 -C-North	25	3.3	6.63	3.3	15.9	0.32	1.7	0.56	2.3
L1-C-South	25	3.3	6.63	3.3	11.4	0.21	0.5	0.65	1.93
L1-C-East	23	3.0	6.10	3.0	25.4	1.01	2.8	0.86	3.23
L1-C-Central	43	5.7	11.40	5.7	17.1	0.53	0.5	0.68	1.92
L2-C-All	17	2.3	4.51	2.3	20.6	1.31	0.8	1.04	2.97
Composite 4 Preparation	755	100.0	200.0	100.0	14.16	0.57	1.6	0.76	2.57

Figures 1, 2 and 3 show the drill hole locations and spacing in plan view for composites 1 – 4 respectively. An examination of these plans clearly shows that composite 4 most accurately covers the ore deposit and can therefore be deemed to be the most representative sample tested to date.

Appendix

Phase 1 metallurgical composite backup reports.
Phase 2 metallurgical composite backup reports.
Memo to file describing mining dilution allowance in sample collection for Composite 2 and 3.
Phase 3 metallurgical composite backup reports.
Chain of custody documentation available.



Preliminary mine plan outline

Resource below cutoff

500 feet

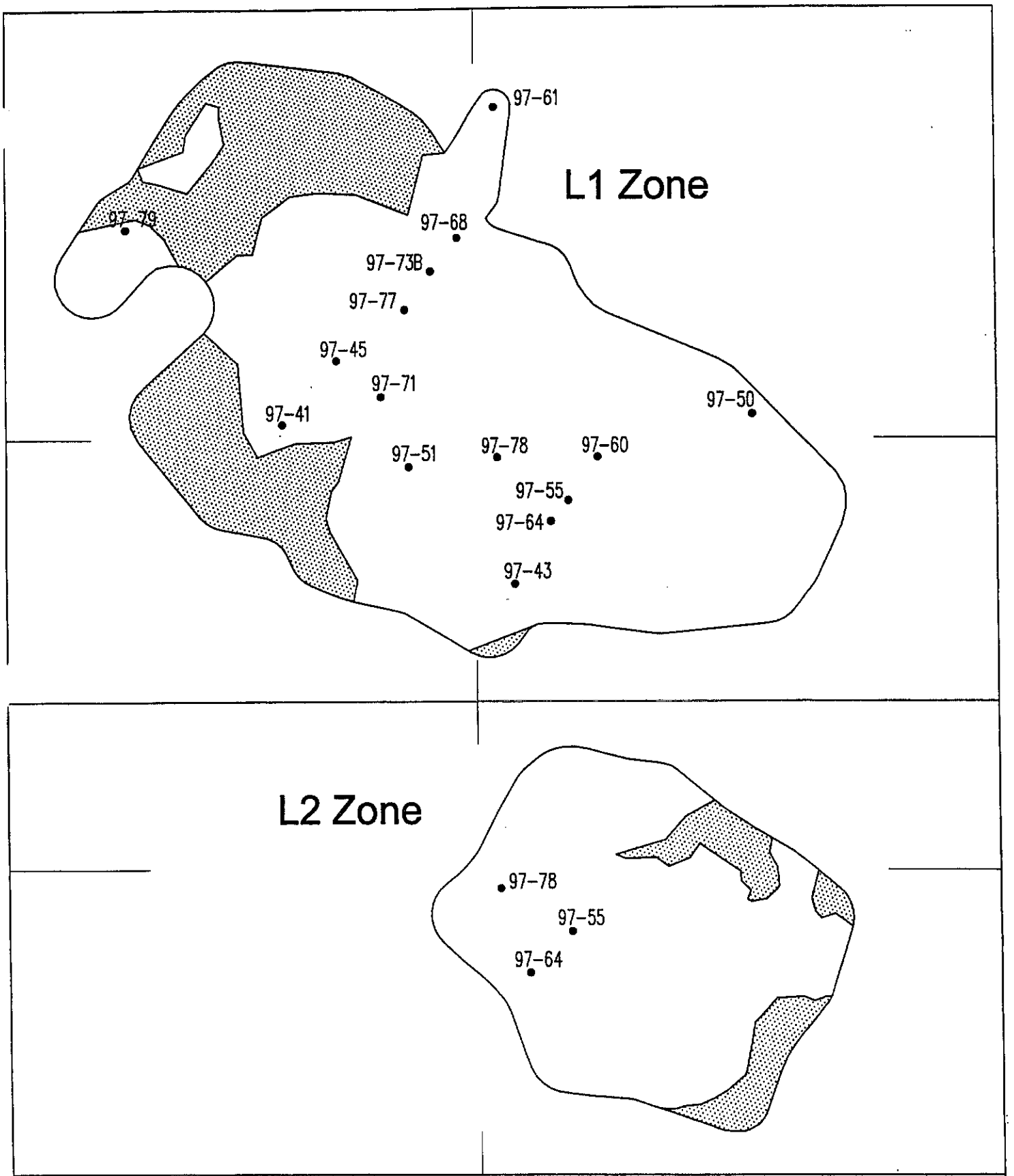
TECK CORPORATION

POGO PROJECT

Figure 5.1

SAMPLE LOCATIONS FOR COMPOSITE 1

Date: July 22,1999



Preliminary mine plan outline

Resource below cutoff

500 feet

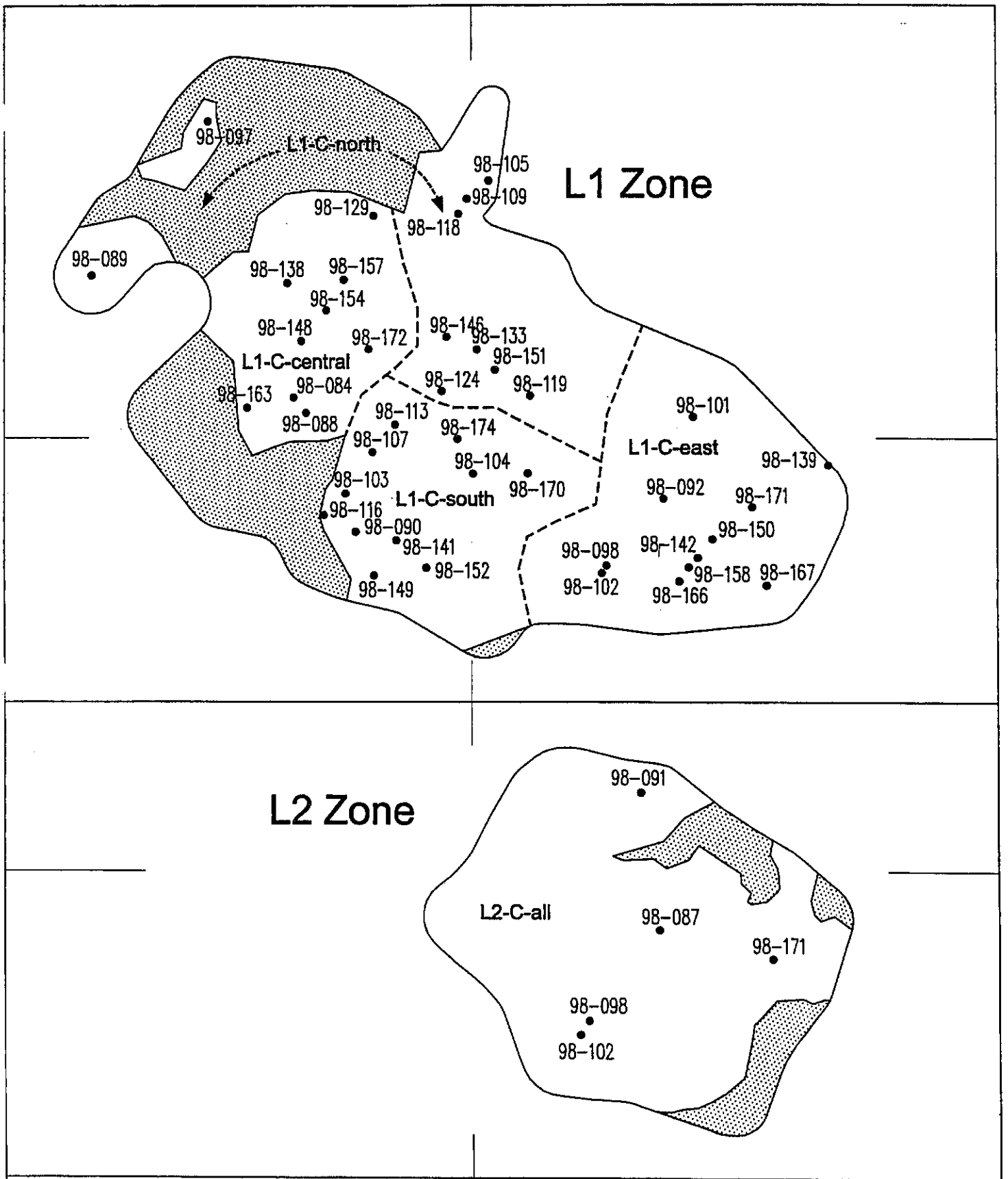
TECK CORPORATION

POGO PROJECT

Figure 5.2

SAMPLE LOCATIONS FOR COMPOSITE 2-3

Date: July 22,1999



Preliminary mine plan outline

Resource below cutoff

500 feet

TECK CORPORATION

POGO PROJECT

Figure 5.3

SAMPLE LOCATIONS FOR COMPOSITE 4

Date: July 22,1999

Phase 1 Metallurgical Samples.

For appendix.

W G M INC

MINING AND GEOLOGICAL CONSULTANTS
P.O. BOX 100059 Anchorage, ALASKA 99510

Telecopier: BROTHER 1450mc (unattended) **Facsimile No. 907-279-1629**

To: Keith Sarbutt, Lakefield Research **Date: December 30, 1997**
CC: Peter MacPhail, Teck Corp. **Project: 777**
From: Tom Corbett, WGM
Subject: Pogo Metallurgical Sample Shipment
Telecopier No.: (705) 652-6365 **Operator: TJC**
No. Pages: 11 + cover

***IF ANY QUESTIONS OR PROBLEMS PLEASE CALL 907-276-5004**

Dear Keith,

Per the request of Peter MacPhail of Teck Corp., we are shipping selected bulk rejects from core sample analyses and quartered drill core to Lakefield Research. The samples are being shipped by truck via Lynden Transport (Pro No. 434766), and should arrive at Lakefield in two to three weeks. I have informed Phil Jolly at Lakefield of the schedule.

Many of the bulk rejects requested were either not found by the laboratory, or were consumed by prior analyses, and part of the core to quartered was unavailable for sampling. Table 1 provides a summary of the 335 bulk rejects transferred to Lakefield Research, listed by Chemex certificate number. Please note that the samples were inventoried by Chemex.

Table 2 lists 59 quartered core submitted to Lakefield with drill hole numbers and sample intervals for drill holes 95-07, 97-58, 97-67, and 97-70. Samples previously taken for special studies are listed in the Notes column.

Table 3 lists 335 bulk rejects transferred to Lakefield with drill hole numbers and sample intervals. Table 4 is a list of 252 bulk rejects requested, which either could not be found by Chemex or were consumed by previous analyses. This list was included in the event that some "missing" samples turn up in the shipment. Please call me if you have any questions.

Best Regards
Tom Corbett
Tom Corbett
WGM Inc.

Table 1 - Summary of Core Sample Bulk Rejects Sent to Lakefield Research - WGM Inc. (Dec. 29, 1997) Page 1 of 1

Chemex Cert No	From Sample No.	Through Sample No.	#		Chemex Cert No	From Sample No.	Through Sample No.	#	
A9623644	89083	89087	5		A9737218	94054	94056	3	
A9623644	89089	89091	3		A9737218	94059	94066	8	
A9623644	89093	89096	4		A9737218	94114		1	
A9623644	89098		1		A9737218	94116	94120	5	
A9624720	89252	89253	2		A9738623	92872		1	
A9624720	89256		1		A9738623	92874	92876	3	
A9624720	89259		1		A9738623	94110		1	
A9624720	89267		1		A9738623	94112	94113	2	
A9624720	89275		1		A9738623	94514		1	
A9624720	89308		1		A9738623	94516	94528	13	
A9624720	89327		1		A9738623	94530	94535	6	
A9626451	89336		1		A9740594	94183	94190	8	
A9626451	89340		1		A9740594	94256		1	
A9626451	89344		1		A9740594	94258	94262	5	
A9629111	89700		1		A9740594	94363	94376	14	
A9629111	89736	89737	2		A9740594	94414	94416	3	
A9629111	89919		1		A9741302	92374	92377	4	
A9629111	89921		1		A9741302	94580	94592	13	
A9629111	89926	89927	2		A9741302	94695	94705	11	
A9629929	90510		1		A9741302	94707		1	
A9633936	91131	91133	3	?	A9741302	94709	94710	2	
A9633937	91135	91141	7		A9741302	94791		1	
A9642643	90149		1	?	A9741302	94794	94797	4	
A9729203	91721	91728	8		A9741302	94800		1	
A9729203	92111	92112	2		A9741302	94961	94971	11	
A9730714	92342	92351	10		A9741302	96501	96503	3	
A9730714	92416	92419	4		A9741929	94485	94486	2	
A9730714	92421	92425	5		A9741929	94663	94670	8	
A9730714	92427	92430	4		A9741929	94799		1	
A9732096	92858	92859	2		A9741929	94972	94974	3	
A9732096	92901	92909	9		A9741929	96553		1	
A9732096	93024	93030	7		A9741929	96842	96843	2	
A9732096	93148	93150	3		A9741929	96845		1	
A9732960	93364	93367	4		A9741929	96847	96850	4	
A9732960	93369		1		A9741929	96909		1	
A9732960	93371	93374	4		A9741929	96910	96914	5	
A9732960	93377	93388	12		A9742409	95594	95597	4	
A9732960	93456	93467	12		A9742409	95637	95642	6	
A9733725	92979	92983	5		A9742409	95644	95645	2	
A9733725	92985	92992	8		A9742409	95660	95664	5	
A9735025	93311	93315	5		A9751102	94792	94793	2	
A9735025	93928	93931	4		A9752603	98001	98003	3	
A9737218	93616	93619	4						
A9737218	93964	93965	2				Total No.:	335	
A9737218	93967		1				Est. Wt.:	1850	lbs

840 kg

Avg 2.5 kg/sample

Table 2 - Quarter Core Submitted To Lakefield Research (by Drill Hole)- WGM Inc. (Dec. 29, 1997) Page 1

Sample	Hole	From	To	Length	Notes
		ft.	ft.	ft.	
87851	95-07	684.00	685.00	1.00	
87852	95-07	685.00	694.00	9.00	
87853	95-07	694.00	699.00	5.00	
87854	95-07	699.00	704.00	5.00	
87855	95-07	704.00	706.50	2.50	Specs Taken: 706.4-706.5, 704.75-704.1
87856	95-07	706.50	710.00	3.50	
87857	95-07	710.00	712.50	2.50	Specs Taken: 712.2-712.35
87858	95-07	712.50	716.00	3.50	
87859	95-07	716.00	720.00	4.00	
87860	95-07	720.00	722.70	2.70	
87861	95-07	722.70	725.00	2.30	
87862	95-07	725.00	728.00	3.00	
87863	95-07	728.00	731.00	3.00	Specs Taken: 728.9-729
87864	95-07	731.00	734.00	3.00	
87865	95-07	734.00	738.00	4.00	
92978	97-58	1155.00	1158.00	3.00	Spec Taken: 1153.8-1155.8
92979	97-58	1158.00	1159.20	1.20	
92980	97-58	1159.20	1163.30	4.10	
92981	97-58	1163.30	1165.00	1.70	
92982	97-58	1165.00	1167.10	2.10	Spec Taken: 1166.7-1167
92983	97-58	1167.10	1168.50	1.40	
92984	97-58	1168.50	1169.80	1.30	
92985	97-58	1169.80	1174.50	4.70	
92986	97-58	1174.50	1178.10	3.60	
92987	97-58	1178.10	1185.00	6.90	
92988	97-58	1185.00	1186.60	1.60	
92989	97-58	1186.60	1190.00	3.40	
92990	97-58	1190.00	1195.00	5.00	
92991	97-58	1195.00	1201.00	6.00	
92992	97-58	1201.00	1202.70	1.70	
94364	97-67	815.70	819.00	3.30	
94365	97-67	819.00	821.80	2.80	
94366	97-67	821.80	827.00	5.20	
94367	97-67	827.00	829.00	2.00	
94368	97-67	829.00	830.00	1.00	
94369	97-67	830.00	832.60	2.60	Spec Taken: 831.8-832.1
94370	97-67	832.60	840.00	7.40	
94371	97-67	840.00	846.00	6.00	
94372	97-67	846.00	848.00	2.00	
94373	97-67	848.00	850.50	2.50	
94374	97-67	850.50	853.50	3.00	
94375	97-67	853.50	857.80	4.30	
94376	97-67	857.80	860.50	2.70	
94695	97-70	840.00	841.00	1.00	
94696	97-70	841.00	841.50	0.50	
94697	97-70	841.50	844.00	2.50	
94698	97-70	844.00	851.00	7.00	
94699	97-70	851.00	854.50	3.50	
94700	97-70	854.50	859.00	4.50	
94701	97-70	859.00	862.00	3.00	
94702	97-70	862.00	864.70	2.70	
94703	97-70	864.70	866.00	1.30	
94704	97-70	866.00	867.50	1.50	Spec Taken: 867.2-867.6
94705	97-70	867.50	869.00	1.50	Spec Taken: 867.2-867.6
94706	97-70	869.00	873.00	4.00	
94707	97-70	873.00	874.50	1.50	
94708	97-70	874.50	875.00	0.50	
94709	97-70	875.00	883.50	8.50	
94710	97-70	883.50	884.50	1.00	

Notes: Spec Taken" refers to core intervals taken for special studies.
DDH 96-21 stored at Pogo, not available for cutting.
DDH 96-47 already quartered and was not sampled.
Core not found for Sample 94363, DDH 97-67 811-815.7'.

Table 3 - Core Sample Bulk Rejects Sent To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 1 of 5

		From	To	Interval	Chemex	
Sample	DDH	ft.	ft.	ft.	Cert No	Notes
89252	96-17	559.50	560.00	0.50	A9624720	
89253	96-17	560.00	561.60	1.60	A9624720	
89256	96-17	566.00	566.10	0.10	A9624720	
89259	96-17	567.50	568.50	1.00	A9624720	
89267	96-17	582.50	584.70	2.20	A9624720	
89275	96-17	602.50	603.50	1.00	A9624720	
89083	96-18	536.00	537.10	1.10	A9623644	
89084	96-18	537.10	540.50	3.40	A9623644	
89085	96-18	540.50	544.00	3.50	A9623644	
89086	96-18	544.00	546.90	2.90	A9623644	
89087	96-18	546.90	550.00	3.10	A9623644	
89089	96-18	553.80	555.00	1.20	A9623644	
89090	96-18	555.00	556.00	1.00	A9623644	
89091	96-18	556.00	558.00	2.00	A9623644	
89093	96-18	558.50	560.00	1.50	A9623644	
89094	96-18	560.00	566.00	6.00	A9623644	
89095	96-18	566.00	574.00	8.00	A9623644	
89096	96-18	574.00	579.30	5.30	A9623644	
89098	96-18	580.00	586.00	6.00	A9623644	
89308	96-19	640.50	643.00	2.50	A9624720	
89327	96-19	690.00	691.00	1.00	A9624720	
89338	96-19	717.00	717.50	0.50	A9626451	
89340	96-19	725.00	725.50	0.50	A9626451	
89344	96-19	730.50	731.00	0.50	A9626451	
89736	96-23	506.70	512.50	5.80	A9629111	
89737	96-23	512.50	516.60	4.10	A9629111	
89700	96-24	375.50	385.00	9.50	A9629111	
89919	96-25	863.50	864.00	0.50	A9629111	
89921	96-25	866.00	867.00	1.00	A9629111	
89926	96-25	873.00	876.00	3.00	A9629111	
89927	96-25	876.00	881.00	5.00	A9629111	
90510	96-26	625.10	625.60	0.50	A9629929	
91131	96-32	518.00	523.60	5.60	A9633936	
91132	96-32	523.60	526.00	2.40	A9633936	
91133	96-32	526.00	532.00	6.00	A9633936	
91135	96-32	532.50	533.10	0.60	A9633937	
91136	96-32	533.10	535.50	2.40	A9633937	
91137	96-32	535.50	537.50	2.00	A9633937	
91138	96-32	537.50	543.00	5.50	A9633937	
91139	96-32	543.00	543.50	0.50	A9633937	
91140	96-32	543.50	547.50	4.00	A9633937	
91141	96-32	547.50	552.10	4.60	A9633937	
90149	96-37	554.00	558.00	4.00	A9642643	
91721	97-41	941.00	941.50	0.50	A9729203	
91722	97-41	941.50	942.00	0.50	A9729203	
91723	97-41	942.00	943.00	1.00	A9729203	
91724	97-41	943.00	947.00	4.00	A9729203	
91725	97-41	947.00	951.00	4.00	A9729203	
91726	97-41	951.00	952.00	1.00	A9729203	
91727	97-41	952.00	954.00	2.00	A9729203	
91728	97-41	954.00	957.00	3.00	A9729203	
92111	97-43	573.30	576.00	2.70	A9729203	
92112	97-43	576.00	578.00	2.00	A9729203	
92342	97-45	1061.00	1066.00	5.00	A9730714	
92343	97-45	1066.00	1067.00	1.00	A9730714	
92344	97-45	1067.00	1072.00	5.00	A9730714	
92345	97-45	1072.00	1075.50	3.50	A9730714	
92346	97-45	1075.50	1078.00	2.50	A9730714	
92347	97-45	1078.00	1079.50	1.50	A9730714	
92348	97-45	1079.50	1082.00	2.50	A9730714	
92349	97-45	1082.00	1082.80	0.80	A9730714	
92350	97-45	1082.80	1085.00	2.20	A9730714	
92351	97-45	1085.00	1087.10	2.10	A9730714	
92416	97-47	768.00	769.00	1.00	A9730714	
92417	97-47	769.00	770.00	1.00	A9730714	
92418	97-47	770.00	773.00	3.00	A9730714	
92419	97-47	773.00	776.00	3.00	A9730714	

Table 3 - Core Sample Bulk Rejects Sent To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 2 of 5

		From	To	Interval	Chemex	
Sample	DDH	ft.	ft.	ft.	Cert No	Notes
92421	97-47	777.00	778.00	1.00	A9730714	
92422	97-47	778.00	782.50	4.50	A9730714	
92423	97-47	782.50	786.20	3.70	A9730714	
92424	97-47	786.20	788.00	1.80	A9730714	
92425	97-47	788.00	792.00	4.00	A9730714	
92427	97-47	793.50	796.90	3.40	A9730714	
92428	97-47	796.90	798.00	1.10	A9730714	
92429	97-47	798.00	800.00	2.00	A9730714	
92430	97-47	800.00	804.80	4.80	A9730714	
93024	97-49	1002.00	1004.00	2.00	A9732096	
93025	97-49	1004.00	1006.00	2.00	A9732096	
93026	97-49	1006.00	1007.50	1.50	A9732096	
93027	97-49	1007.50	1012.50	5.00	A9732096	
93028	97-49	1012.50	1014.00	1.50	A9732096	
93029	97-49	1014.00	1016.50	2.50	A9732096	
93030	97-49	1016.50	1019.00	2.50	A9732096	
92374	97-50	474.00	483.50	9.50	A9741302	
92375	97-50	483.50	494.00	10.50	A9741302	
92376	97-50	494.00	504.00	10.00	A9741302	
92377	97-50	504.00	514.00	10.00	A9741302	
96001	97-50	504.00	506.00	2.00	A9752603	
96002	97-50	506.00	510.00	4.00	A9752603	
96003	97-50	510.00	514.00	4.00	A9752603	
92858	97-50	781.50	784.00	2.50	A9732096	
92859	97-50	784.00	788.00	4.00	A9732096	
93148	97-51	899.60	902.40	2.80	A9732096	
93149	97-51	902.40	907.00	4.60	A9732096	
93150	97-51	907.00	913.00	6.00	A9732096	
92901	97-51	913.00	915.00	2.00	A9732096	
92902	97-51	915.00	917.50	2.50	A9732096	
92903	97-51	917.50	919.00	1.50	A9732096	
92904	97-51	919.00	921.50	2.50	A9732096	
92905	97-51	921.50	923.00	1.50	A9732096	
92906	97-51	923.00	925.00	2.00	A9732096	
92907	97-51	925.00	926.70	1.70	A9732096	
92908	97-51	926.70	927.00	0.30	A9732096	
92909	97-51	927.00	929.50	2.50	A9732096	
93364	97-53	1112.50	1114.00	1.50	A9732960	
93365	97-53	1114.00	1115.00	1.00	A9732960	
93366	97-53	1115.00	1118.00	3.00	A9732960	
93367	97-53	1118.00	1119.50	1.50	A9732960	
93369	97-53	1121.00	1123.00	2.00	A9732960	
93371	97-53	1123.50	1125.00	1.50	A9732960	
93372	97-53	1125.00	1131.50	6.50	A9732960	
93373	97-53	1131.50	1133.50	2.00	A9732960	
93374	97-53	1133.50	1136.00	2.50	A9732960	
93377	97-53	1137.00	1139.50	2.50	A9732960	
93378	97-53	1139.50	1142.00	2.50	A9732960	
93379	97-53	1142.00	1146.20	4.20	A9732960	
93380	97-53	1146.20	1150.50	4.30	A9732960	
93381	97-53	1150.50	1152.50	2.00	A9732960	
93382	97-53	1152.50	1160.00	7.50	A9732960	
93383	97-53	1160.00	1162.50	2.50	A9732960	
93384	97-53	1162.50	1167.50	5.00	A9732960	
93385	97-53	1167.50	1169.00	1.50	A9732960	
93386	97-53	1169.00	1171.50	2.50	A9732960	
93387	97-53	1171.50	1173.50	2.00	A9732960	
93388	97-53	1173.50	1177.50	4.00	A9732960	
93311	97-55	423.00	433.00	10.00	A9735025	
93312	97-55	433.00	444.00	11.00	A9735025	
93313	97-55	444.00	448.00	4.00	A9735025	
93314	97-55	448.00	454.50	6.50	A9735025	
93315	97-55	454.50	462.50	8.00	A9735025	
93456	97-55	800.00	802.50	2.50	A9732960	
93457	97-55	802.50	804.50	2.00	A9732960	
93458	97-55	804.50	806.50	2.00	A9732960	
93459	97-55	806.50	808.50	2.00	A9732960	

Table 3 - Core Sample Bulk Rejects Sent To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 3 of 5

		From	To	Interval	Chemex	
Sample	DDH	ft.	ft.	ft.	Cert No	Notes
93460	97-55	808.50	809.50	1.00	A9732960	
93461	97-55	809.50	811.50	2.00	A9732960	
93462	97-55	811.50	813.50	2.00	A9732960	
93463	97-55	814.00	815.00	1.00	A9732960	
93464	97-55	815.00	817.50	2.50	A9732960	
93465	97-55	817.50	822.00	4.50	A9732960	
93466	97-55	822.00	824.00	2.00	A9732960	
93467	97-55	824.00	826.00	2.00	A9732960	
93616	97-57	648.00	653.00	5.00	A9737218	
93617	97-57	653.00	657.50	4.50	A9737218	
93618	97-57	657.50	660.00	2.50	A9737218	
93619	97-57	660.00	661.00	1.00	A9737218	
92979	97-58	1158.00	1159.20	1.20	A9733725	
92980	97-58	1159.20	1163.30	4.10	A9733725	
92981	97-58	1163.30	1165.00	1.70	A9733725	
92982	97-58	1165.00	1167.10	2.10	A9733725	
92983	97-58	1167.10	1168.50	1.40	A9733725	
92985	97-58	1169.80	1174.50	4.70	A9733725	
92986	97-58	1174.50	1178.10	3.60	A9733725	
92987	97-58	1178.10	1185.00	6.90	A9733725	
92988	97-58	1185.00	1186.60	1.60	A9733725	
92989	97-58	1186.60	1190.00	3.40	A9733725	
92990	97-58	1190.00	1195.00	5.00	A9733725	
92991	97-58	1195.00	1201.00	6.00	A9733725	
92992	97-58	1201.00	1202.70	1.70	A9733725	
94110	97-60	644.00	648.00	4.00	A9738623	
94112	97-60	649.00	650.00	1.00	A9738623	
94113	97-60	650.00	653.00	3.00	A9738623	
94114	97-60	653.00	655.00	2.00	A9737218	
94116	97-60	656.00	659.00	3.00	A9737218	
94117	97-60	659.00	660.50	1.50	A9737218	
94118	97-60	660.50	663.00	2.50	A9737218	
94119	97-60	663.00	667.00	4.00	A9737218	
94120	97-60	667.00	671.00	4.00	A9737218	
92872	97-60	1041.00	1048.00	7.00	A9738623	
92874	97-60	1048.50	1050.00	1.50	A9738623	
92875	97-60	1050.00	1052.00	2.00	A9738623	
92876	97-60	1052.00	1054.00	2.00	A9738623	
93928	97-61	368.50	373.00	4.50	A9735025	
93929	97-61	373.00	383.00	10.00	A9735025	
93930	97-61	383.00	386.00	3.00	A9735025	
93931	97-61	386.00	392.00	6.00	A9735025	
94054	97-62	1215.00	1220.00	5.00	A9737218	
94055	97-62	1220.00	1221.80	1.80	A9737218	
94056	97-62	1221.80	1224.50	2.70	A9737218	
94059	97-62	1227.50	1229.50	2.00	A9737218	
94060	97-62	1229.50	1232.00	2.50	A9737218	
94061	97-62	1232.00	1234.00	2.00	A9737218	
94062	97-62	1234.00	1236.50	2.50	A9737218	
94063	97-62	1236.50	1243.50	7.00	A9737218	
94064	97-62	1243.50	1250.00	6.50	A9737218	
94065	97-62	1250.00	1252.50	2.50	A9737218	
94066	97-62	1252.50	1253.50	1.00	A9737218	
93964	97-63	616.00	622.00	6.00	A9737218	
93965	97-63	622.00	625.00	3.00	A9737218	
93967	97-63	630.00	637.00	7.00	A9737218	
94183	97-64	355.00	360.00	5.00	A9740594	
94184	97-64	360.00	365.00	5.00	A9740594	
94185	97-64	365.00	375.00	10.00	A9740594	
94186	97-64	375.00	381.50	6.50	A9740594	
94187	97-64	381.50	383.00	1.50	A9740594	
94188	97-64	383.00	383.50	0.50	A9740594	
94189	97-64	383.50	385.00	1.50	A9740594	
94190	97-64	385.00	390.00	5.00	A9740594	
94414	97-64	832.50	835.00	2.50	A9740594	
94415	97-64	835.00	838.00	3.00	A9740594	
94416	97-64	838.00	841.70	3.70	A9740594	

Table 3 - Core Sample Bulk Rejects Sent To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 4 of 5

Sample	DDH	From ft.	To ft.	Interval ft.	Chemex Cert No	Notes
94256	97-66	739.30	740.80	1.50	A9740594	
94258	97-66	741.50	743.00	1.50	A9740594	
94259	97-66	743.00	749.50	6.50	A9740594	
94260	97-66	749.50	750.50	1.00	A9740594	
94261	97-66	750.50	752.50	2.00	A9740594	
94262	97-66	752.50	755.50	3.00	A9740594	
94363	97-67	811.00	815.70	4.70	A9740594	
94364	97-67	815.70	819.00	3.30	A9740594	
94365	97-67	819.00	821.80	2.80	A9740594	
94366	97-67	821.80	827.00	5.20	A9740594	
94367	97-67	827.00	829.00	2.00	A9740594	
94368	97-67	829.00	830.00	1.00	A9740594	
94369	97-67	830.00	832.60	2.60	A9740594	
94370	97-67	832.60	840.00	7.40	A9740594	
94371	97-67	840.00	846.00	6.00	A9740594	
94372	97-67	846.00	848.00	2.00	A9740594	
94373	97-67	848.00	850.50	2.50	A9740594	
94374	97-67	850.50	853.50	3.00	A9740594	
94375	97-67	853.50	857.80	4.30	A9740594	
94376	97-67	857.80	860.50	2.70	A9740594	
94514	97-68	963.00	968.50	5.50	A9738623	
94516	97-68	969.00	971.00	2.00	A9738623	
94517	97-68	971.00	974.00	3.00	A9738623	
94518	97-68	974.00	976.00	2.00	A9738623	
94519	97-68	976.00	978.50	2.50	A9738623	
94520	97-68	978.50	983.00	4.50	A9738623	
94521	97-68	983.00	988.00	5.00	A9738623	
94522	97-68	988.00	991.00	3.00	A9738623	
94523	97-68	991.00	993.00	2.00	A9738623	
94524	97-68	993.00	995.00	2.00	A9738623	
94525	97-68	995.00	997.00	2.00	A9738623	
94526	97-68	997.00	1002.00	5.00	A9738623	
94527	97-68	1002.00	1006.50	4.50	A9738623	
94528	97-68	1006.50	1007.50	1.00	A9738623	
94530	97-68	1008.20	1015.00	6.80	A9738623	
94531	97-68	1015.00	1025.00	10.00	A9738623	
94532	97-68	1025.00	1030.00	5.00	A9738623	
94533	97-68	1030.00	1035.00	5.00	A9738623	
94534	97-68	1035.00	1037.50	2.50	A9738623	
94535	97-68	1037.50	1039.00	1.50	A9738623	
94485	97-69	1259.80	1261.00	1.20	A9741929	
94486	97-69	1261.00	1262.50	1.50	A9741929	
94663	97-70	381.30	385.50	4.20	A9741929	
94664	97-70	385.50	387.20	1.70	A9741929	
94665	97-70	387.20	389.90	2.70	A9741929	
94666	97-70	389.90	392.00	2.10	A9741929	
94667	97-70	392.00	395.50	3.50	A9741929	
94668	97-70	395.50	400.00	4.50	A9741929	
94669	97-70	400.00	402.80	2.80	A9741929	
94670	97-70	402.80	405.50	2.70	A9741929	
94695	97-70	840.00	841.00	1.00	A9741302	
94696	97-70	841.00	841.50	0.50	A9741302	
94697	97-70	841.50	844.00	2.50	A9741302	
94698	97-70	844.00	851.00	7.00	A9741302	
94699	97-70	851.00	854.50	3.50	A9741302	
94700	97-70	854.50	859.00	4.50	A9741302	
94701	97-70	859.00	862.00	3.00	A9741302	
94702	97-70	862.00	864.70	2.70	A9741302	
94703	97-70	864.70	866.00	1.30	A9741302	
94704	97-70	866.00	867.50	1.50	A9741302	
94705	97-70	867.50	869.00	1.50	A9741302	
94707	97-70	873.00	874.50	1.50	A9741302	
94709	97-70	875.00	883.50	8.50	A9741302	
94710	97-70	883.50	884.50	1.00	A9741302	
94580	97-71	744.80	748.00	3.20	A9741302	
94581	97-71	748.00	753.00	5.00	A9741302	
94582	97-71	753.00	758.00	5.00	A9741302	

381.3 - 405.5

840 - 884.5

Table 3 - Core Sample Bulk Rejects Sent To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 5 of 5

		From	To	Interval	Chemex	
Sample	DDH	ft.	ft.	ft.	Cert No	Notes
94583	97-71	758.00	768.00	10.00	A9741302	
94584	97-71	768.00	769.90	1.90	A9741302	
94585	97-71	769.90	774.00	4.10	A9741302	
94586	97-71	774.00	779.00	5.00	A9741302	
94587	97-71	779.00	781.50	2.50	A9741302	
94588	97-71	781.50	786.00	4.50	A9741302	
94589	97-71	786.00	789.00	3.00	A9741302	
94590	97-71	789.00	791.50	2.50	A9741302	
94591	97-71	791.50	794.00	2.50	A9741302	
94592	97-71	794.00	798.30	4.30	A9741302	
94791	97-71	1342.50	1349.00	6.50	A9741302	
94792	97-71	1349.00	1354.60	5.60	A9751102	
94793	97-71	1354.60	1359.00	4.40	A9751102	
94794	97-71	1359.00	1364.30	5.30	A9741302	
94795	97-71	1364.30	1368.00	3.70	A9741302	
94796	97-71	1368.00	1373.00	5.00	A9741302	
94797	97-71	1373.00	1379.00	6.00	A9741302	
94799	97-71	1388.00	1394.00	6.00	A9741929	
94800	97-71	1394.00	1399.00	5.00	A9741302	
96501	97-71	1399.00	1400.80	1.80	A9741302	
96502	97-71	1400.80	1407.00	6.20	A9741302	
96503	97-71	1407.00	1409.00	2.00	A9741302	
94961	97-73b	877.50	884.00	6.50	A9741302	
94962	97-73b	884.00	885.50	1.50	A9741302	
94963	97-73b	885.50	889.00	3.50	A9741302	
94964	97-73b	889.00	890.00	1.00	A9741302	
94965	97-73b	890.00	892.50	2.50	A9741302	
94966	97-73b	892.50	893.00	0.50	A9741302	
94967	97-73b	893.00	900.50	7.50	A9741302	
94968	97-73b	900.50	901.50	1.00	A9741302	
94969	97-73b	901.50	904.00	2.50	A9741302	
94970	97-73b	904.00	908.00	4.00	A9741302	
94971	97-73b	908.00	913.50	5.50	A9741302	
94972	97-73b	913.50	917.50	4.00	A9741929	
94973	97-73b	917.50	919.50	2.00	A9741929	
94974	97-73b	919.50	921.10	1.60	A9741929	
95553	97-75	376.00	376.50	0.50	A9741929	
95660	97-76	848.00	851.00	3.00	A9742409	
95661	97-76	851.00	853.00	2.00	A9742409	
95662	97-76	853.00	855.00	2.00	A9742409	
95663	97-76	855.00	856.50	1.50	A9742409	
95664	97-76	856.50	861.00	4.50	A9742409	
96842	97-77	722.00	724.00	2.00	A9741929	
96843	97-77	724.00	726.00	2.00	A9741929	
96845	97-77	726.50	730.00	3.50	A9741929	
96847	97-77	730.50	739.50	9.00	A9741929	
96848	97-77	739.50	741.00	1.50	A9741929	
96849	97-77	741.00	743.70	2.70	A9741929	
96850	97-77	743.70	745.00	1.30	A9741929	
95594	97-78	544.00	545.50	1.50	A9742409	
95595	97-78	545.50	547.00	1.50	A9742409	
95596	97-78	547.00	549.00	2.00	A9742409	
95597	97-78	549.00	551.00	2.00	A9742409	
95637	97-78	886.00	887.50	1.50	A9742409	
95638	97-78	887.50	890.00	2.50	A9742409	
95639	97-78	890.00	892.00	2.00	A9742409	
95640	97-78	892.00	894.50	2.50	A9742409	
95641	97-78	894.50	895.50	1.00	A9742409	
95642	97-78	895.50	897.00	1.50	A9742409	
95644	97-78	900.00	903.00	3.00	A9742409	
95645	97-78	903.00	908.00	5.00	A9742409	
96909	97-79	1286.00	1292.90	6.90	A9741929	
96910	97-79	1292.90	1296.00	3.10	A9741929	
96911	97-79	1296.00	1298.00	2.00	A9741929	
96912	97-79	1298.00	1304.00	6.00	A9741929	
96913	97-79	1304.00	1313.00	9.00	A9741929	
96914	97-79	1313.00	1314.70	1.70	A9741929	

Table 4 - Core Samples Missing From Shipment To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 1 of 4

		From	To	Interval	Chemex	
Sample	DDH	ft.	ft.	ft.	Cert No	Notes
109723	94-01	805.00	806.00	1.00	A9424480	missing
235693	94-01	806.00	810.00	4.00	A9422006	missing
235694	94-01	810.00	814.00	4.00	A9422006	missing
109724	94-01	814.00	815.00	1.00	A9424480	missing
109725	94-01	815.00	818.00	3.00	A9424480	missing
235695	94-01	818.00	820.00	2.00	A9422006	missing
87985	95-07	449.00	454.00	5.00	A9525562	missing
87986	95-07	454.00	459.00	5.00	A9525562	missing
87987	95-07	459.00	464.00	5.00	A9525562	missing
87851	95-07	684.00	685.00	1.00	A9524146	missing
87852	95-07	685.00	694.00	9.00	A9524148	missing
87853	95-07	694.00	699.00	5.00	A9524148	missing
87854	95-07	699.00	704.00	5.00	A9524148	missing
87855	95-07	704.00	706.50	2.50	A9524148	missing
87856	95-07	706.50	710.00	3.50	A9524148	missing
87857	95-07	710.00	712.50	2.50	A9524148	missing
87858	95-07	712.50	716.00	3.50	A9524146	missing
87859	95-07	716.00	720.00	4.00	A9524146	missing
87860	95-07	720.00	722.70	2.70	A9524146	missing
87861	95-07	722.70	725.00	2.30	A9524148	missing
87862	95-07	725.00	728.00	3.00	A9524148	missing
87863	95-07	728.00	731.00	3.00	A9524148	missing
87864	95-07	731.00	734.00	3.00	A9524148	missing
87865	95-07	734.00	738.00	4.00	A9524146	missing
88135	95-09	592.80	594.50	1.70	A9525563	missing
88136	95-09	594.50	596.00	1.50	A9525563	missing
88137	95-09	596.00	600.00	4.00	A9525563	missing
88138	95-09	600.00	601.00	1.00	A9525563	missing
88139	95-09	601.00	603.00	2.00	A9525563	missing
88140	95-09	603.00	607.00	4.00	A9525563	missing
88141	95-09	607.00	609.00	2.00	A9525563	missing
88142	95-09	609.00	610.00	1.00	A9525563	missing
88143	95-09	610.00	612.00	2.00	A9525563	missing
88144	95-09	612.00	615.50	3.50	A9525563	missing
88660	95-16	394.00	404.00	10.00	A9534947	missing
88661	95-16	404.00	405.50	1.50	A9534947	missing
88662	95-16	405.50	409.00	3.50	A9534947	missing
88690	95-16	768.10	774.00	5.90	A9534947	missing
88691	95-16	774.00	779.00	5.00	A9534947	missing
88692	95-16	779.00	780.00	1.00	A9534947	missing
88693	95-16	780.00	783.60	3.60	A9534947	missing
89250	96-17	555.60	557.80	2.20	A9624720	missing
89251	96-17	557.80	559.50	1.70	A9624720	missing
89254	96-17	561.60	564.00	2.40	A9624720	missing
89255	96-17	564.00	565.50	1.50	A9624720	missing
89257	96-17	566.10	566.50	0.40	A9624720	missing
89258	96-17	566.50	567.50	1.00	A9624720	missing
89260	96-17	568.50	571.00	2.50	A9624720	missing
89261	96-17	571.00	573.00	2.00	A9624720	missing
89262	96-17	573.00	574.00	1.00	A9624720	missing
89263	96-17	574.00	575.20	1.20	A9624720	missing
89264	96-17	575.20	576.20	1.00	A9624720	missing
89265	96-17	576.20	579.30	3.10	A9624720	missing
89266	96-17	579.30	582.50	3.20	A9624720	missing
89268	96-17	584.70	586.50	1.80	A9624720	missing
89269	96-17	586.50	589.00	2.50	A9624720	missing
89270	96-17	589.00	591.50	2.50	A9624720	missing
89271	96-17	591.50	591.70	0.20	A9624720	missing
89272	96-17	591.70	594.00	2.30	A9624720	missing
89273	96-17	594.00	601.50	7.50	A9624720	missing
89274	96-17	601.50	602.50	1.00	A9624720	missing
89088	96-18	550.00	553.80	3.80	A9623644	missing
89092	96-18	558.00	558.50	0.50	A9623644	missing
89097	96-18	579.30	580.00	0.70	A9623644	missing
89306	96-19	635.00	637.50	2.50	A9624720	missing
89307	96-19	637.50	640.50	3.00	A9624720	missing
89309	96-19	643.00	648.50	5.50	A9624720	missing

Table 4 - Core Samples Missing From Shipment To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 2 of 4

		From	To	Interval	Chemex	
Sample	DDH	ft.	ft.	ft.	Cert No	Notes
89310	96-19	648.50	652.00	3.50	A9624720	missing
89311	96-19	652.00	658.00	6.00	A9624720	missing
89312	96-19	658.00	659.50	1.50	A9624720	missing
89313	96-19	659.50	665.00	5.50	A9624720	missing
89314	96-19	665.00	666.00	1.00	A9624720	missing
89315	96-19	666.00	668.00	2.00	A9624720	missing
89316	96-19	668.00	672.00	4.00	A9624720	missing
89317	96-19	672.00	673.50	1.50	A9624720	missing
89318	96-19	673.50	675.00	1.50	A9624720	missing
89319	96-19	675.00	676.00	1.00	A9624720	missing
89320	96-19	676.00	676.40	0.40	A9624720	missing
89321	96-19	676.40	677.50	1.10	A9624720	missing
89322	96-19	677.50	679.50	2.00	A9624720	missing
89323	96-19	679.50	682.50	3.00	A9624720	missing
89324	96-19	682.50	687.00	4.50	A9624720	missing
89325	96-19	687.00	687.50	0.50	A9624720	missing
89326	96-19	687.50	690.00	2.50	A9624720	missing
89328	96-19	691.00	693.00	2.00	A9626451	missing
89329	96-19	693.00	696.50	3.50	A9626451	missing
89330	96-19	696.50	699.00	2.50	A9626451	missing
89331	96-19	699.00	702.00	3.00	A9626451	missing
89332	96-19	702.00	707.00	5.00	A9626451	missing
89333	96-19	707.00	711.00	4.00	A9626451	missing
89334	96-19	711.00	715.50	4.50	A9626451	missing
89335	96-19	715.50	717.00	1.50	A9626451	missing
89337	96-19	717.50	719.00	1.50	A9626451	missing
89338	96-19	719.00	723.50	4.50	A9626451	missing
89339	96-19	723.50	725.00	1.50	A9626451	missing
89341	96-19	725.50	728.00	2.50	A9626451	missing
89342	96-19	728.00	730.00	2.00	A9626451	missing
89343	96-19	730.00	730.50	0.50	A9626451	missing
89345	96-19	731.00	733.50	2.50	A9626451	missing
89346	96-19	733.50	736.00	2.50	A9626451	missing
89347	96-19	736.00	738.00	2.00	A9626451	missing
89348	96-19	738.00	740.50	2.50	A9626451	missing
89349	96-19	740.50	743.50	3.00	A9626451	missing
89350	96-19	743.50	747.00	3.50	A9626451	missing
89351	96-19	747.00	749.00	2.00	A9626451	missing
89352	96-19	749.00	750.00	1.00	A9626451	missing
89489	96-21	490.80	493.50	2.70	A9626452	missing
89490	96-21	493.50	499.50	6.00	A9626452	missing
89491	96-21	499.50	502.00	2.50	A9626452	missing
89492	96-21	502.00	503.50	1.50	A9626452	missing
89493	96-21	503.50	504.50	1.00	A9626452	missing
89494	96-21	504.50	506.50	2.00	A9626452	missing
89495	96-21	506.50	508.50	2.00	A9626452	missing
89496	96-21	508.50	511.30	2.80	A9626452	missing
89620	96-22	385.50	388.00	2.50	A9626453	missing
89621	96-22	388.00	395.00	7.00	A9626453	missing
89622	96-22	395.00	401.00	6.00	A9626453	missing
89623	96-22	401.00	404.50	3.50	A9626453	missing
89624	96-22	404.50	407.00	2.50	A9626453	missing
89625	96-22	407.00	408.50	1.50	A9626453	missing
89626	96-22	408.50	411.00	2.50	A9626453	missing
89627	96-22	411.00	411.50	0.50	A9626453	missing
89628	96-22	411.50	414.00	2.50	A9626453	missing
89734	96-23	505.50	506.50	1.00	A9629111	missing
89735	96-23	506.50	506.70	0.20	A9629111	missing
89738	96-23	516.60	518.00	1.40	A9629111	missing
89739	96-23	518.00	519.00	1.00	A9629111	missing
89740	96-23	519.00	521.00	2.00	A9629111	missing
89741	96-23	521.00	524.50	3.50	A9629111	missing
89742	96-23	524.50	526.00	1.50	A9629111	missing
89743	96-23	526.00	527.30	1.30	A9629111	missing
89744	96-23	527.30	531.00	3.70	A9629111	missing
89745	96-23	531.00	531.80	0.80	A9629111	missing
89746	96-23	531.80	534.00	2.20	A9629111	missing

Table 4 - Core Samples Missing From Shipment To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 3 of 4

		From	To	Interval	Chemex	
Sample	DDH	ft.	ft.	ft.	Cert No	Notes
89747	96-23	534.00	537.00	3.00	A9629111	missing
89801	96-24	385.00	391.50	6.50	A9629111	missing
89802	96-24	391.50	396.50	5.00	A9629111	missing
89803	96-24	396.50	397.40	0.90	A9629111	missing
89908	96-25	833.00	834.50	1.50	A9629111	missing
89909	96-25	834.50	838.50	4.00	A9629111	missing
89910	96-25	838.50	840.50	2.00	A9629111	missing
89911	96-25	840.50	843.00	2.50	A9629111	missing
89912	96-25	843.00	845.00	2.00	A9629111	missing
89913	96-25	845.00	846.50	1.50	A9629111	missing
89914	96-25	846.50	848.50	2.00	A9629111	missing
89915	96-25	848.50	857.50	9.00	A9629111	missing
89916	96-25	857.50	858.00	0.50	A9629111	missing
89917	96-25	858.00	862.00	4.00	A9629111	missing
89918	96-25	862.00	863.50	1.50	A9629111	missing
89920	96-25	864.00	866.00	2.00	A9629111	missing
89922	96-25	867.00	868.50	1.50	A9629111	missing
89923	96-25	868.50	871.00	2.50	A9629111	missing
89924	96-25	871.00	871.50	0.50	A9629111	missing
89925	96-25	871.50	873.00	1.50	A9629111	missing
90509	96-26	617.50	625.10	7.60	A9629929	missing
90511	96-26	625.60	627.50	1.90	A9629929	missing
90512	96-26	627.50	629.50	2.00	A9629929	missing
90513	96-26	629.50	634.80	5.30	A9629929	missing
90514	96-26	634.80	637.50	2.70	A9629929	missing
90515	96-26	637.50	642.50	5.00	A9629929	missing
90516	96-26	642.50	646.00	3.50	A9629929	missing
90517	96-26	646.00	651.00	5.00	A9629929	missing
90597	96-27	616.40	618.00	1.60	A9630562	missing
90598	96-27	618.00	624.00	6.00	A9630562	missing
90599	96-27	624.00	625.00	1.00	A9630562	missing
90600	96-27	625.00	626.00	1.00	A9630562	missing
90781	96-28B	546.00	547.00	1.00	A9632330	missing
90782	96-28B	547.00	547.88	0.88	A9632330	missing
90783	96-28B	547.88	553.60	5.72	A9632330	missing
90784	96-28B	553.60	554.40	0.80	A9632330	missing
90785	96-28B	554.40	556.44	2.04	A9632330	missing
90786	96-28B	556.44	566.00	9.56	A9632330	missing
90864	96-29	682.00	683.30	1.30	A9631310	missing
90865	96-29	683.30	685.50	2.20	A9631310	missing
91134	96-32	532.00	532.50	0.50	A9638937	missing
91299	96-34	877.00	878.40	1.40	A9638935	missing
91300	96-34	878.40	884.80	6.40	A9638935	missing
91301	96-34	884.80	886.00	1.20	A9638935	missing
91302	96-34	886.00	888.10	2.10	A9638935	missing
91303	96-34	888.10	890.20	2.10	A9638935	missing
91304	96-34	890.20	891.00	0.80	A9638935	missing
91426	96-35B	519.00	521.30	2.30	A9639713	missing
91348	96-35B	840.00	842.10	2.10	A9639190	missing
91349	96-35B	842.10	845.40	3.30	A9639190	missing
91350	96-35B	845.40	849.30	3.90	A9639190	missing
91486	96-36	713.00	723.00	10.00	A9639190	missing
91487	96-36	723.00	725.00	2.00	A9639190	missing
91488	96-36	725.00	729.00	4.00	A9639190	missing
91489	96-36	729.00	731.00	2.00	A9639190	missing
91490	96-36	731.00	734.00	3.00	A9639190	missing
91491	96-36	734.00	737.00	3.00	A9639190	missing
91492	96-36	737.00	741.00	4.00	A9639190	missing
91493	96-36	741.00	743.00	2.00	A9639190	missing
91494	96-36	743.00	748.50	5.50	A9639190	missing
91495	96-36	748.50	750.50	2.00	A9639190	missing
91496	96-36	750.50	751.00	0.50	A9639190	missing
91497	96-36	751.00	751.50	0.50	A9639190	missing
91498	96-36	751.50	753.50	2.00	A9639190	missing
91499	96-36	753.50	757.00	3.50	A9639190	missing
91500	96-36	757.00	759.50	2.50	A9639190	missing
90151	96-36	759.50	767.00	7.50	A9639190	missing

Table 4 - Core Samples Missing From Shipment To Lakefield Research by Drill Hole- WGM Inc. (Dec. 29, 1997) Page 4 of 4

		From	To	Interval	Chemex	
Sample	DDH	ft.	ft.	ft.	Cert No	Notes
90152	96-36	767.00	774.50	7.50	A9639190	missing
90153	96-36	774.50	776.00	1.50	A9639190	missing
90154	96-36	776.00	783.60	7.60	A9639190	missing
90155	96-36	783.60	786.00	2.40	A9639190	missing
90156	96-36	786.00	791.00	5.00	A9639190	missing
90157	96-36	791.00	791.10	0.10	A9639190	missing
90158	96-36	791.10	795.50	4.40	A9639190	missing
90159	96-36	795.50	806.50	11.00	A9639190	missing
90160	96-36	806.50	814.30	7.80	A9639190	missing
90161	96-36	814.30	816.50	2.20	A9639190	missing
90263	96-37	922.00	924.00	2.00	A9638935	missing
90264	96-37	924.00	928.00	4.00	A9638935	missing
90265	96-37	928.00	930.00	2.00	A9638935	missing
90266	96-37	930.00	932.00	2.00	A9638935	missing
90267	96-37	932.00	933.00	1.00	A9638935	missing
90268	96-37	933.00	936.00	3.00	A9638935	missing
90269	96-37	936.00	939.00	3.00	A9638935	missing
90270	96-37	939.00	942.00	3.00	A9638935	missing
92420	97-47	776.00	777.00	1.00	A9730714	missing
92426	97-47	792.00	793.50	1.50	A9730714	missing
93368	97-53	1119.50	1121.00	1.50	A9732960	missing
93370	97-53	1123.00	1123.50	0.50	A9732960	missing
93375	97-53	1136.00	1136.50	0.50	A9732960	missing
93376	97-53	1136.50	1137.00	0.50	A9732960	missing
93615	97-57	638.00	648.00	10.00	A9737218	missing
92984	97-58	1168.50	1169.80	1.30	A9733725	missing
94111	97-60	648.00	649.00	1.00	A9738623	missing
94115	97-60	655.00	656.00	1.00	A9737218	missing
92873	97-60	1048.00	1048.50	0.50	A9738623	missing
94057	97-62	1224.50	1226.50	2.00	A9737218	missing
94058	97-62	1226.50	1227.50	1.00	A9737218	missing
93966	97-63	625.00	630.00	5.00	A9737218	missing
94257	97-66	740.80	741.50	0.70	A9740594	missing
94515	97-68	968.50	969.00	0.50	A9738623	missing
94529	97-68	1007.50	1008.20	0.70	A9738623	missing
94706	97-70	869.00	873.00	4.00	A9741302	missing
94708	97-70	874.50	875.00	0.50	A9741302	missing
94789	97-71	1338.00	1341.50	3.50	A9741302	missing
94790	97-71	1341.50	1342.50	1.00	A9741302	missing
94798	97-71	1379.00	1388.00	9.00	A9741929	missing
96552	97-75	373.00	376.00	3.00	A9741929	missing
96554	97-75	376.50	378.00	1.50	A9741929	missing
96555	97-75	378.00	379.40	1.40	A9741929	missing
96638	97-75	1125.00	1126.90	1.90	A9741929	missing
96639	97-75	1126.90	1133.00	6.10	A9741929	missing
96841	97-77	721.10	722.00	0.90	A9741929	missing
96844	97-77	726.00	726.50	0.50	A9741929	missing
96846	97-77	730.00	730.50	0.50	A9741929	missing
96851	97-77	745.00	746.00	1.00	A9741929	missing
95593	97-78	542.50	544.00	1.50	A9742409	missing
95643	97-78	897.00	900.00	3.00	A9742409	missing

Bulk reject composites - weights as is
(see summary at bottom)

Sample	DDH	From ft.	To ft.	Interval ft.		Chemex Cert No	Wt g	Au(g/t)	As(g/t)	
88135	95-09	592.80	594.50	1.70	1.70	A9525563	696	12.3	7480	
88136	95-09	594.50	596.00	1.50	1.50	A9525563	700	202.8	29200	
88137	95-09	596.00	600.00	4.00	4.00	A9525563	1820	228.0	25900	
88138	95-09	600.00	601.00	1.00		A9525563		35.1	1950	
88139	95-09	601.00	603.00	2.00	2.00	A9525563	614	2.9	1635	
88140	95-09	603.00	607.00	4.00	4.00	A9525563	1305	6.6	1800	NOT USED
88141	95-09	607.00	609.00	2.00	2.00	A9525563	920	0.6	574	
88142	95-09	609.00	610.00	1.00	1.00	A9525563	231	3.7	512	
88143	95-09	610.00	612.00	2.00	2.00	A9525563	298	3.7	854	
88144	95-09	612.00	615.50	3.50	3.50	A9525563	1006	32.6	4710	
	95-09	592.80	615.50	23	22	96	7590	80.5	10774.19	
88660	95-16	394.00	404.00	10.00	10.00	A9534947	5022	2.1	648	
88661	95-16	404.00	405.50	1.50	1.50	A9534947	445	5.8	644	NOT USED
88662	95-16	405.50	409.00	3.50	3.50	A9534947	1587	56.8	8790	
	95-16	394.00	409.00	15.00	15.00	100	7054.00	14.6	2479.525	
88690	95-16	768.10	774.00	5.90	5.90	A9534947	2633	7.7	19200	
88691	95-16	774.00	779.00	5.00	5.00	A9534947	1883	3.3	15600	NOT USED
88692	95-16	779.00	780.00	1.00	1.00	A9534947	109	9.9	12400	
88693	95-16	780.00	783.60	3.60	3.60	A9534947	949	13.7	21800	
	95-16	768.10	783.60	16	16	100	5574	7.3	18293.54	
89489	96-21	490.80	493.50	2.70		A9626452		4.2	934	
89490	96-21	493.50	499.50	6.00	6.00	A9626452	3068	3.8	9700	
89491	96-21	499.50	502.00	2.50	2.50	A9626452	722	7.2	30000	
89492	96-21	502.00	503.50	1.50	1.50	A9626452	289	21.7	124000	
89493	96-21	503.50	504.50	1.00		A9626452		29.3	2510	
89494	96-21	504.50	506.50	2.00		A9626452		27.1	9130	
89495	96-21	506.50	508.50	2.00	2.00	A9626452	548	1.0	1240	
89496	96-21	508.50	511.30	2.80	2.80	A9626452	874	25.2	512	
	96-21	490.80	511.30	21	15	72	5501	8.3	16066.64	
89620	96-22	385.50	388.00	2.50	2.50	A9626453	1033	1.9	2570	
89621	96-22	388.00	395.00	7.00	7.00	A9626453	3250	6.6	3050	
89622	96-22	395.00	401.00	6.00	6.00	A9626453	3090	119.2	9080	
89623	96-22	401.00	404.50	3.50	3.50	A9626453	1906	4.9	5970	
89624	96-22	404.50	407.00	2.50	2.50	A9626453	833	11.6	232	
89625	96-22	407.00	408.50	1.50	1.50	A9626453	240	8.8	206	
89626	96-22	408.50	411.00	2.50		A9626453		16.0	1475	
89627	96-22	411.00	411.50	0.50		A9626453		63.0	2320	
89628	96-22	411.50	414.00	2.50	2.50	A9626453	674	50.7	27700	
	96-22	385.50	414.00	29	26	89	11026	40.5	6431.691	
89700	96-24	375.50	385.00	9.50		A9629111		1.7	590	
89801	96-24	385.00	391.50	6.50	6.50	A9629111	1568	47.5	1750	
89802	96-24	391.50	396.50	5.00	5.00	A9629111	2796	165.2	2580	
89803	96-24	396.50	397.40	0.90		A9629111		111.9	6150	
	96-24	375.50	397.40	22	12	53	4364	122.9	2281.778	
89908	96-25	833.00	834.50	1.50		A9629111		2.5	56	
89909	96-25	834.50	838.50	4.00	4.00	A9629111	1771	1.7	706	
89910	96-25	838.50	840.50	2.00	2.00	A9629111	780	120.5	508	
89911	96-25	840.50	843.00	2.50	2.50	A9629111	385	1.1	312	
89912	96-25	843.00	845.00	2.00	2.00	A9629111	399	42.2	2770	
89913	96-25	845.00	846.50	1.50	1.50	A9629111	472	84.1	1150	
89914	96-25	846.50	848.50	2.00	2.00	A9629111	527	40.6	126	
89915	96-25	848.50	857.50	9.00	9.00	A9629111	4626	2.3	18	
89916	96-25	857.50	858.00	0.50		A9629111		0.4	12	
89917	96-25	858.00	862.00	4.00	4.00	A9629111	1518	0.1	32	
89918	96-25	862.00	863.50	1.50		A9629111		0.2	48	
89919	96-25	863.50	864.00	0.50		A9629111		0.1	172	
89920	96-25	864.00	866.00	2.00	2.00	A9629111	880	0.4	124	
89921	96-25	866.00	867.00	1.00		A9629111		0.1	4	
89922	96-25	867.00	868.50	1.50		A9629111		0.4	6	
89923	96-25	868.50	871.00	2.50	2.50	A9629111	455	0.1	54	
89924	96-25	871.00	871.50	0.50		A9629111		0.1	14	
89925	96-25	871.50	873.00	1.50		A9629111		0.2	8	
89926	96-25	873.00	876.00	3.00		A9629111		6.6	2770	
89927	96-25	876.00	881.00	5.00		A9629111		0.2	614	
	96-25	833.00	881.00	48	32	66	11813	15.8	317.1635	

Bulk reject composites - weights as is

(see summary at bottom)

Sample	DDH	From ft.	To ft.	Interval ft.		Chemex Cert No	Wt g	Au(g/t)	As(g/t)
90509	96-26	617.50	625.10	7.60	7.60	A9629929	4988	0.0	92
90510	96-26	625.10	625.60	0.50	0.50	A9629929		27.7	60200
90511	96-26	625.60	627.50	1.90	1.90	A9629929	511	5.9	8230
90512	96-26	627.50	629.50	2.00	2.00	A9629929	816	32.4	1560
90513	96-26	629.50	634.80	5.30	5.30	A9629929	3412	1.1	424
90514	96-26	634.80	637.50	2.70	2.70	A9629929	1066	25.0	902
90515	96-26	637.50	642.50	5.00	5.00	A9629929	2578	0.1	190
90516	96-26	642.50	646.00	3.50	3.50	A9629929	2028	0.1	48
90517	96-26	646.00	651.00	5.00	5.00	A9629929	3516	0.1	22
	96-26	617.50	651.00	34	34	100	18915	3.2	476.348
90597	96-27	616.40	618.00	1.60	1.60	A9630562	718	11.3	4020
90598	96-27	618.00	624.00	6.00	6.00	A9630562	3330	7.5	14100
90599	96-27	624.00	625.00	1.00	1.00	A9630562	309	1.8	3660
90600	96-27	625.00	626.00	1.00		A9630562		1.5	24600
	96-27	616.40	626.00	10	9	90	4357	7.7	11698.48
91486	96-36	713.00	723.00	10.00		A9639190		2.3	6780
91487	96-36	723.00	725.00	2.00		A9639190		2.0	11900
91488	96-36	725.00	729.00	4.00	4.00	A9639190	1851	88.0	3970
91489	96-36	729.00	731.00	2.00	2.00	A9639190	1176	17.2	1955
91490	96-36	731.00	734.00	3.00	3.00	A9639190	1165	3.7	1390
91491	96-36	734.00	737.00	3.00	3.00	A9639190	1858	16.0	15900
91492	96-36	737.00	741.00	4.00	4.00	A9639190	2117	34.2	47600
91493	96-36	741.00	743.00	2.00	2.00	A9639190	755	25.9	24200
91494	96-36	743.00	748.50	5.50	5.50	A9639190	2650	34.6	5320
91495	96-36	748.50	750.50	2.00	2.00	A9639190	494	7.1	564
91496	96-36	750.50	751.00	0.50		A9639190		21.7	1445
91497	96-36	751.00	751.50	0.50		A9639190		37.5	1310
91498	96-36	751.50	753.50	2.00	2.00	A9639190	963	11.3	390
91499	96-36	753.50	757.00	3.50	3.50	A9639190	2017	2.5	306
91500	96-36	757.00	759.50	2.50	2.50	A9639190	1288	15.4	348
90151	96-36	759.50	767.00	7.50	7.50	A9639190	3679	2.9	214
90152	96-36	767.00	774.50	7.50	7.50	A9639190	3509	2.8	102
90153	96-36	774.50	776.00	1.50	1.50	A9639190	640	0.1	194
90154	96-36	776.00	783.60	7.60	7.60	A9639190	5163	0.7	30
90155	96-36	783.60	786.00	2.40	2.40	A9639190	1952	0.8	1455
90156	96-36	786.00	791.00	5.00	5.00	A9639190	2450	1.1	1550
90157	96-36	791.00	791.10	0.10		A9639190		0.4	144
90158	96-36	791.10	795.50	4.40	4.40	A9639190	3309	1.0	1075
90159	96-36	795.50	806.50	11.00	11.00	A9639190	5954	21.9	1285
90160	96-36	806.50	814.30	7.80	7.80	A9639190	4940	5.3	3360
90161	96-36	814.30	816.50	2.20	2.20	A9639190	1214	12.4	20200
	96-36	713.00	816.50	104	90	87	49144	13.1	4803.396
90263	96-37	922.00	924.00	2.00	2.00	A9638935	2065	5.4	34600
90264	96-37	924.00	928.00	4.00	4.00	A9638935	2184	15.7	12400
90265	96-37	928.00	930.00	2.00	2.00	A9638935	1001	9.7	27400
90266	96-37	930.00	932.00	2.00	2.00	A9638935	1090	37.1	4890
90267	96-37	932.00	933.00	1.00	1.00	A9638935	717	55.2	3650
90268	96-37	933.00	936.00	3.00	3.00	A9638935	2460	21.7	2200
90269	96-37	936.00	939.00	3.00	3.00	A9638935	1759	64.1	9130
90270	96-37	939.00	942.00	3.00	3.00	A9638935	1630	3.5	2620
	96-37	922.00	942.00	20	20	100	12906	23.8	12370.02
92374	97-50	474.00	483.50	9.50	9.50	A9741302	4691	25.9	9750
92375	97-50	483.50	494.00	10.50	10.50	A9741302	5385	17.9	9970
92376	97-50	494.00	504.00	10.00	10.00	A9741302	5130	25.9	5340
92377	97-50	504.00	514.00	10.00	10.00	A9741302	4780	12.1	1145
	97-50	474.00	514.00	40	40	100	19986	20.4	6619.283
93148	97-51	899.60	902.40	2.80	2.80	A9732096	1031	89.9	6160
93149	97-51	902.40	907.00	4.60	4.60	A9732096	2350	0.8	136
93150	97-51	907.00	913.00	6.00	6.00	A9732096	3547	0.2	94
92901	97-51	913.00	915.00	2.00		A9732096		10.7	9860
92902	97-51	915.00	917.50	2.50	2.50	A9732096	478	90.2	10000
92903	97-51	917.50	919.00	1.50		A9732096		139.4	9560
92904	97-51	919.00	921.50	2.50	2.50	A9732096	621	3.8	286
92905	97-51	921.50	923.00	1.50	1.50	A9732096	230	3.5	1045
92906	97-51	923.00	925.00	2.00	2.00	A9732096	499	7.7	7020
92907	97-51	925.00	926.70	1.70	1.70	A9732096	339	3.7	3690
92908	97-51	926.70	927.00	0.30		A9732096		21.5	10000
92909	97-51	927.00	929.50	2.50		A9732096		15.3	5320
	97-51	899.60	929.50	30	24	79	9095	16.1	1864.302

NOT USED

Bulk reject composites - weights as is
(see summary at bottom)

Sample	DDH	From ft.	To ft.	Interval ft.		Chemex Cert No	Wt g	Au(g/t)	As(g/t)
92979	97-58	1158.00	1159.20	1.20	1.20	A9733725	774	5.6	2
92980	97-58	1159.20	1163.30	4.10	4.10	A9733725	839	114.7	10
92981	97-58	1163.30	1165.00	1.70		A9733725		16.1	16
92982	97-58	1165.00	1167.10	2.10		A9733725		79.2	28
92983	97-58	1167.10	1168.50	1.40	1.40	A9733725	669	0.7	36
92984	97-58	1168.50	1169.80	1.30		A9733725		0.1	16
92985	97-58	1169.80	1174.50	4.70	4.70	A9733725	3127	0.0	28
92986	97-58	1174.50	1178.10	3.60	3.60	A9733725	1892	1.4	52
92987	97-58	1178.10	1185.00	6.90	6.90	A9733725	2659	0.2	20
92988	97-58	1185.00	1186.60	1.60	1.60	A9733725	521	0.0	4
92989	97-58	1186.60	1190.00	3.40	3.40	A9733725	1353	0.3	244
92990	97-58	1190.00	1195.00	5.00	5.00	A9733725	1359	9.9	10000
92991	97-58	1195.00	1201.00	6.00	6.00	A9733725	3765	2.4	10000
92992	97-58	1201.00	1202.70	1.70		A9733725		10.0	10000
	97-58	1158.00	1202.70	45	38	85	16958	7.5	3057.28
93311	97-55	423.00	433.00	10.00	10.00	A9735025	6544	2.5	818
93312	97-55	433.00	444.00	11.00	11.00	A9735025	5086	9.3	10000
93313	97-55	444.00	448.00	4.00	4.00	A9735025	983	12.8	10000
93314	97-55	448.00	454.50	6.50	6.50	A9735025	2377	26.4	10000
93315	97-55	454.50	462.50	8.00	8.00	A9735025	3754	1.1	3020
	97-55	423.00	462.50	40	40	100	18744	7.6	5396.397
93928	97-61	368.50	373.00	4.50	4.50	A9735025	2463	0.8	4230
93929	97-61	373.00	383.00	10.00	10.00	A9735025	4934	5.6	764
93930	97-61	383.00	386.00	3.00	3.00	A9735025	1187	6.6	1295
93931	97-61	386.00	392.00	6.00	6.00	A9735025	2337	5.4	2090
	97-61	368.50	392.00	24	24	100	10921	4.6	1887.15
93964	97-63	616.00	622.00	6.00	6.00	A9737218	1811	4.7	4050
93965	97-63	622.00	625.00	3.00	3.00	A9737218	960	3.2	10000
93966	97-63	625.00	630.00	5.00	5.00	9737218	1648	11.4	4150
93967	97-63	630.00	637.00	7.00	7.00	A9737218	1983	1.9	8570
	97-63	616.00	637.00	21	21	100	6402	5.3	6368.019
94414	97-64	832.50	835.00	2.50	2.50	A9740594	528	83.3	10000
94415	97-64	835.00	838.00	3.00	3.00	A9740594	1325	1.5	40
94416	97-64	838.00	841.70	3.70	3.70	A9740594	1743	2.7	36
	97-64	832.50	841.70	9.20	9.20	100	3596.00	14.1	1500.486
94580	97-71	744.80	748.00	3.20	3.20	A9741302	999	19.8	98
94581	97-71	748.00	753.00	5.00	5.00	A9741302	1297	8.8	134
94582	97-71	753.00	758.00	5.00		A9741302		22.0	276
94583	97-71	758.00	768.00	10.00	10.00	A9741302	503	14.7	138
94584	97-71	768.00	769.90	1.90		A9741302		8.8	360
94585	97-71	769.90	774.00	4.10	4.10	A9741302	208	1.6	250
94586	97-71	774.00	779.00	5.00	5.00	A9741302	1724	0.1	82
94587	97-71	779.00	781.50	2.50	2.50	A9741302	1060	1.7	172
94588	97-71	781.50	786.00	4.50	4.50	A9741302	1252	22.9	782
94589	97-71	786.00	789.00	3.00	3.00	A9741302	798	36.9	2110
94590	97-71	789.00	791.50	2.50	2.50	A9741302	200	3.3	222
94591	97-71	791.50	794.00	2.50	2.50	A9741302	408	4.8	182
94592	97-71	794.00	798.30	4.30	4.30	A9741302	1039	29.8	10000
	97-71	744.80	798.30	54	47	87	9488	14.0	1463.776
94663	97-70	381.30	385.50	4.20	4.20	A9741929	2449	3.7	3570
94664	97-70	385.50	387.20	1.70		A9741929		40.2	4690
94665	97-70	387.20	389.90	2.70	2.70	A9741929	973	2.1	2770
94666	97-70	389.90	392.00	2.10	2.10	A9741929	332	18.8	3230
94667	97-70	392.00	395.50	3.50	3.50	A9741929	2084	2.0	552
94668	97-70	395.50	400.00	4.50	4.50	A9741929	2309	0.3	194
94669	97-70	400.00	402.80	2.80	2.80	A9741929	1080	33.0	26
94670	97-70	402.80	405.50	2.70	2.70	A9741929	912	1.3	4310
	97-70	381.30	405.50	24	23	93	10139	5.8	1781.992
94789	97-71	1338.00	1341.50	3.50		A9741302		0.6	22
94790	97-71	1341.50	1342.50	1.00		A9741302		0.1	72
94791	97-71	1342.50	1349.00	6.50		A9741302		3.4	400
94792	97-71	1349.00	1354.60	5.60	5.60	A9751102	3121	2.0	300
94793	97-71	1354.60	1359.00	4.40	4.40	A9751102	2541	2.0	300
94794	97-71	1359.00	1364.30	5.30	5.30	A9741302	2617	0.2	540
94795	97-71	1364.30	1368.00	3.70	3.70	A9741302	879	42.0	10000
94796	97-71	1368.00	1373.00	5.00	5.00	A9741302	1779	123.7	10000
94797	97-71	1373.00	1379.00	6.00	6.00	A9741302	2311	0.4	1355
94798	97-71	1379.00	1388.00	9.00		A9741929		0.1	130
94799	97-71	1388.00	1394.00	6.00	6.00	A9741929	2889	0.2	1210
94800	97-71	1394.00	1399.00	5.00	5.00	A9741302	2183	4.8	10000
96501	97-71	1399.00	1400.80	1.80	1.80	A9741302	221	2.5	5890
96502	97-71	1400.80	1407.00	6.20	6.20	A9741302	3183	8.1	10000
96503	97-71	1407.00	1409.00	2.00		A9741302		0.6	2690
	97-71	1338.00	1409.00	71	49	69	21724	14.1	4201.83

Bulk reject composites - weights as is

(see summary at bottom)

Sample	DDH	From ft.	To ft.	Interval ft.		Chemex Cert No	Wt g	Au(g/t)	As(g/t)
94961	97-73b	877.50	884.00	6.50	6.50	A9741302	2471	11.0	54
94962	97-73b	884.00	885.50	1.50		A9741302		42.1	80
94963	97-73b	885.50	889.00	3.50	3.50	A9741302	1197	21.9	2580
94964	97-73b	889.00	890.00	1.00		A9741302		6.2	62
94965	97-73b	890.00	892.50	2.50	2.50	A9741302	831	9.1	156
94966	97-73b	892.50	893.00	0.50		A9741302		0.1	88
94967	97-73b	893.00	900.50	7.50	7.50	A9741302	4009	13.2	360
94968	97-73b	900.50	901.50	1.00		A9741302		14.7	1945
94969	97-73b	901.50	904.00	2.50	2.50	A9741302	1200	4.2	968
94970	97-73b	904.00	908.00	4.00	4.00	A9741302	1303	8.9	2510
94971	97-73b	908.00	913.50	5.50	5.50	A9741302	6440	5.5	2050
94972	97-73b	913.50	917.50	4.00	4.00	A9741929	1917	35.3	476
94973	97-73b	917.50	919.50	2.00	2.00	A9741929	823	1.0	492
94974	97-73b	919.50	921.10	1.60	1.60	A9741929	502	5.2	7650
	97-73b	877.50	921.10	44	40	91	20693	11.5	1333.128
95637	97-78	886.00	887.50	1.50		A9742409		17.7	630
95638	97-78	887.50	890.00	2.50	2.50	A9742409	450	30.0	1395
95639	97-78	890.00	892.00	2.00	2.00	A9742409	287	5.6	214
95640	97-78	892.00	894.50	2.50	2.50	A9742409	448	10.6	9070
95641	97-78	894.50	895.50	1.00		A9742409		42.2	248
95642	97-78	895.50	897.00	1.50	1.50	A9742409	1106	5.7	290
95643	97-78	897.00	900.00	3.00		A9742409		1.0	2330
95644	97-78	900.00	903.00	3.00	3.00	A9742409	1684	3.1	2420
95645	97-78	903.00	908.00	5.00	5.00	A9742409	1872	2.8	10000
	97-78	886.00	908.00	22	17	75	5847.	6.3.	4766.299
96841	97-77	721.10	722.00	0.90		A9741929		2.0	290
96842	97-77	722.00	724.00	2.00	2.00	A9741929	528	0.6	810
96843	97-77	724.00	726.00	2.00	2.00	A9741929	550	0.1	168
96844	97-77	726.00	726.50	0.50		A9741929		0.2	76
96845	97-77	726.50	730.00	3.50	3.50	A9741929	1064	8.8	140
96846	97-77	730.00	730.50	0.50		A9741929		0.6	42
96847	97-77	730.50	739.50	9.00	9.00	A9741929	3058	22.1	1510
96848	97-77	739.50	741.00	1.50		A9741929		7.6	1610
96849	97-77	741.00	743.70	2.70	2.70	A9741929	1562	2.3	3410
96850	97-77	743.70	745.00	1.30	1.30	A9741929	589	3.3	2070
96851	97-77	745.00	746.00	1.00		A9741929		6.1	3660
	97-77	721.10	746.00	25	21	82	7351	11.3	1609.614

Bulk Reject composite summary

Comp	DDH	From ft.	To ft.	Interval ft.	sample ft	%samp	Wt g	Au(g/t)	As(g/t)
95-09-1-R	95-09	592.80	615.50	23	22	96	7590	80.5	10774.19
95-16-1-R	95-16	394.00	409.00	15	15	100	7054	14.6	2479.525
95-16-3-R	95-16	768.10	783.60	16	16	100	5574	7.3	18293.54
96-21-1-R	96-21	490.80	511.30	21	15	72	5501	8.3	16066.64
96-22-1-R	96-22	385.50	414.00	29	26	89	11026	40.5	6431.691
96-24-1-R	96-24	375.50	397.40	22	12	53	4364	122.9	2281.778
96-25-1-R	96-25	833.00	881.00	48	32	66	11813	15.8	317.1635
96-26-1-R	96-26	617.50	651.00	34	34	100	18915	3.2	476.348
96-27-1-R	96-27	616.40	626.00	10	9	90	4357	7.7	11698.48
96-36-1-R	96-36	713.00	816.50	104	90	87	49144	13.1	4803.396
96-37-3-R	96-37	922.00	942.00	20	20	100	12906	23.8	12370.02
97-50-1-R	97-50	474.00	514.00	40	40	100	19986	20.4	6619.283
97-51-1-R	97-51	899.60	929.50	30	24	79	9095	16.1	1864.302
97-58-1-R	97-58	1158.00	1202.70	45	38	85	16958	7.5	3057.28
97-55-1-R	97-55	423.00	462.50	40	40	100	18744	7.6	5396.397
97-61-1-R	97-61	368.50	392.00	24	24	100	10921	4.6	1887.15
97-63-1-R	97-63	616.00	637.00	21	21	100	6402	5.3	6368.019
97-64-3-R	97-64	832.50	841.70	9	9	100	3596	14.1	1500.486
97-71-1-R	97-71	744.80	798.30	54	47	87	9488	14.0	1463.776
97-70-1-R	97-70	381.30	405.50	24	23	93	10139	5.8	1781.992
97-71-3-R	97-71	1338.00	1409.00	71	49	69	21724	14.1	4201.83
97-73b-1-R	97-73b	877.50	921.10	44	40	91	20693	11.5	1333.128
97-78-3-R	97-78	886.00	908.00	22	17	75	5847	6.3	4766.299
97-77-1-R	97-77	721.10	746.00	25	21	82	7351	11.3	1609.614
	totals			786	677	86	299188	16.1	4644.12

Phase 2 Metallurgical Samples.

Pogo 831.2

W G M INC

MINING AND GEOLOGICAL CONSULTANTS
P.O. BOX 100059 Anchorage, ALASKA 99510

Telecopier: BROTHER 1450mc (unattended) **Facsimile No. 907-279-1629**

To: Keith Sarbutt, Lakefield Research **Date: March 6, 1998**
CC: Peter MacPhail, Teck Corp.
M. Hisatsune, Sumitomo Metal Mining
From: Tom Corbett, WGM **Project: 777**
Subject: Pogo Phase II - 1/4 Core Samples for Metallurgy
Telecopier No.: (705) 652-6365 **Operator: TJC**
No. Pages: 6 + cover

***IF ANY QUESTIONS OR PROBLEMS PLEASE CALL 907-276-5004**

Per the request of Peter Mac Phail at Teck Corp., quartered drill core samples from Pogo were shipped to Lakefield Research at the following address via air cargo. The shipment comprises 24 five-gallon buckets, which were shipped from Fairbanks by Taiga Ventures on March 5, 1998, via Delta Air Cargo (Air Bill No. 006-FAI 53968014). Total weight of the shipment is ~~534~~ lbs. ~240 Kg

Lakefield Research
c/o Peace Bridge Customs Brokers
185 Concession St.
Lakefield, Ontario K0L 2H0
Canada
Attention: Keith Sarbutt

A five-page annotated sample inventory is attached (Table 1). The "From" and "To" columns list original assay intervals in feet. The first and last sample intervals for each intercept were changed per the request of Mr. MacPhail, and the beginning and ending footages are listed in the "Notes" column. A one-page summary of samples by bucket is also attached (Table 2).

Note that samples in buckets 1 through 9 were bagged by drill intercept, whereas the balance of the samples were individually bagged. Also note that the intercept in drill hole 97-47 requested by Mr. MacPhail was previously quartered for metallurgical tests and was not available for additional analyses.

Please do not hesitate to call if you have any questions.

Best Regards
Tom Corbett

Tom Corbett

Table 1 - Pogo Phase II Quarter Core Samples For Metallurgy - WGM Inc. (March 6, 1998) Page 1

Bucket	Sample	DDH	From	To	Interval	Notes
	The following samples from 97-41 were combined, and are not individually bagged.					
1	91720	97-41	938.50	941.00	2.50	Start @ 939.5
1	91721	97-41	941.00	941.50	0.50	
1	91722	97-41	941.50	942.00	0.50	
1	91723	97-41	942.00	943.00	1.00	
1	91724	97-41	943.00	947.00	4.00	
1	91725	97-41	947.00	951.00	4.00	
1	91726	97-41	951.00	952.00	1.00	
1	91727	97-41	952.00	954.00	2.00	
1	91728	97-41	954.00	957.00	3.00	
1	91729	97-41	957.00	964.00	7.00	Stop @ 958.5
	The following samples from 97-43 were combined, and are not individually bagged.					
5	92109	97-43	568.00	572.00	4.00	Start @ 570.6
5	92110	97-43	572.00	573.30	1.30	
5	92111	97-43	573.30	576.00	2.70	
5	92112	97-43	576.00	578.00	2.00	
5	92113	97-43	578.00	582.00	4.00	Stop @ 580.6
	The following samples from 97-45 were combined, and are not individually bagged.					
4	92341	97-45	1052.40	1061.00	8.60	Start @ 1059.0
4	92342	97-45	1061.00	1066.00	5.00	
4	92343	97-45	1066.00	1067.00	1.00	
4	92344	97-45	1067.00	1072.00	5.00	
4	92345	97-45	1072.00	1075.50	3.50	
4	92346	97-45	1075.50	1078.00	2.50	
4	92347	97-45	1078.00	1079.50	1.50	
4	92348	97-45	1079.50	1082.00	2.50	
4	92349	97-45	1082.00	1082.80	0.80	
4	92350	97-45	1082.80	1085.00	2.20	
4	92351	97-45	1085.00	1087.10	2.10	
4	92352	97-45	1087.10	1091.50	4.40	Stop @ 1089.1
	Samples from 97-47 were previously quartered for Niihama metallurgical study					
NA	92415	97-47	763.20	768.00	4.80	Start @ 766
NA	92416	97-47	768.00	769.00	1.00	
NA	92417	97-47	769.00	770.00	1.00	
NA	92418	97-47	770.00	773.00	3.00	
NA	92419	97-47	773.00	776.00	3.00	
NA	92420	97-47	776.00	777.00	1.00	
NA	92421	97-47	777.00	778.00	1.00	
NA	92422	97-47	778.00	782.50	4.50	
NA	92423	97-47	782.50	786.20	3.70	
NA	92424	97-47	786.20	788.00	1.80	
NA	92425	97-47	788.00	792.00	4.00	
NA	92426	97-47	792.00	793.50	1.50	
NA	92427	97-47	793.50	796.90	3.40	
NA	92428	97-47	796.90	798.00	1.10	
NA	92429	97-47	798.00	800.00	2.00	
NA	92430	97-47	800.00	804.80	4.80	
NA	92431	97-47	804.80	808.00	3.20	Stop @ 806.8
	The following samples from 97-50 were combined, and are not individually bagged.					
7	92373	97-50	464.00	474.00	10.00	Start @ 471
7	92374	97-50	474.00	483.50	9.50	
7	92375	97-50	483.50	494.00	10.50	
7	92376	97-50	494.00	504.00	10.00	
7	92377	97-50	504.00	514.00	10.00	
7	96001	97-50	504.00	506.00	2.00	
7	96002	97-50	506.00	510.00	4.00	
7	96003	97-50	510.00	514.00	4.00	
7	92378	97-50	514.00	524.00	10.00	Stop @ 517
	The following samples from 97-51 were combined, and are not individually bagged.					
8	93147	97-51	895.00	899.60	4.60	Start @ 897.6
8	93148	97-51	899.60	902.40	2.80	
8	93149	97-51	902.40	907.00	4.60	

Table 1 - Pogo Phase II Quarter Core Samples For Metallurgy - WGM Inc. (March 6, 1998) Page 2

Bucket	Sample	DDH	From	To	Interval	Notes
8	93150	97-51	907.00	913.00	6.00	
8	92901	97-51	913.00	915.00	2.00	
8	92902	97-51	915.00	917.50	2.50	
8	92903	97-51	917.50	919.00	1.50	
8	92904	97-51	919.00	921.50	2.50	
8	92905	97-51	921.50	923.00	1.50	
8	92906	97-51	923.00	925.00	2.00	
8	92907	97-51	925.00	926.70	1.70	
8	92908	97-51	926.70	927.00	0.30	
8	92909	97-51	927.00	929.50	2.50	
8	92910	97-51	929.50	933.00	3.50	Stop @ 931.5
	The following samples from 97-55 were combined, and are not individually bagged.					
9	93310	97-55	413.00	423.00	10.00	Start @ 421
9	93311	97-55	423.00	433.00	10.00	
9	93312	97-55	433.00	444.00	11.00	
9	93313	97-55	444.00	448.00	4.00	
9	93314	97-55	448.00	454.50	6.50	
9	93315	97-55	454.50	462.50	8.00	
9	93316	97-55	462.50	470.00	7.50	Stop @ 464.5
	The following samples from 97-55 were combined, and are not individually bagged.					
3	93455	97-55	794.00	800.00	6.00	Start @ 799
3	93456	97-55	800.00	802.50	2.50	
3	93457	97-55	802.50	804.50	2.00	
3	93458	97-55	804.50	806.50	2.00	
3	93459	97-55	806.50	808.50	2.00	
3	93460	97-55	808.50	809.50	1.00	
3	93461	97-55	809.50	811.50	2.00	
3	93462	97-55	811.50	813.50	2.00	
3		97-55	813.50	814.00	0.00	No Core Recovery
3	93463	97-55	814.00	815.00	1.00	
3	93464	97-55	815.00	817.50	2.50	
3	93465	97-55	817.50	822.00	4.50	
3	93466	97-55	822.00	824.00	2.00	
3	93467	97-55	824.00	826.00	2.00	
3	93468	97-55	826.00	835.00	9.00	Stop @ 814.5
	The following samples from 97-57 were combined, and are not individually bagged.					
6	93614	97-57	635.60	638.00	2.40	Start @ 636.5
6	93615	97-57	638.00	648.00	10.00	
6	93616	97-57	648.00	653.00	5.00	
6	93617	97-57	653.00	657.50	4.50	
6	93618	97-57	657.50	660.00	2.50	
6	93619	97-57	660.00	661.00	1.00	
6	93620	97-57	661.00	667.00	6.00	Stop @ 662.5
	The following samples from 97-60 are individually bagged.					
10	94109	97-60	634.00	644.00	10.00	Start @ 642
10	94110	97-60	644.00	648.00	4.00	
10	94111	97-60	648.00	649.00	1.00	
10	94112	97-60	649.00	650.00	1.00	
10	94113	97-60	650.00	653.00	3.00	
10	94114	97-60	653.00	655.00	2.00	
10	94115	97-60	655.00	656.00	1.00	
10	94116	97-60	656.00	659.00	3.00	
10	94117	97-60	659.00	660.50	1.50	
10	94118	97-60	660.50	663.00	2.50	
10	94119	97-60	663.00	667.00	4.00	
10	94120	97-60	667.00	671.00	4.00	
10	94121	97-60	671.00	677.00	6.00	Stop @ 673
	The following samples from 97-61 were combined, and are not individually bagged.					
2	93927	97-61	361.50	368.50	7.00	Start @ 367
2	93928	97-61	368.50	373.00	4.50	
2	93929	97-61	373.00	383.00	10.00	
2	93930	97-61	383.00	386.00	3.00	

Table 1 - Pogo Phase II Quarter Core Samples For Metallurgy - WGM Inc. (March 6, 1998) Page 3

Bucket	Sample	DDH	From	To	Interval	Notes
2	93931	97-61	386.00	392.00	6.00	
2	93932	97-61	392.00	395.00	3.00	Stop @ 393.5
	The following samples from 97-63 are individually bagged.					
11	93962	97-63	596.00	606.00	10.00	Start @ 604
11	93963	97-63	606.00	616.00	10.00	
11	93964	97-63	616.00	622.00	6.00	
11	93965	97-63	622.00	625.00	3.00	
11	93966	97-63	625.00	630.00	5.00	
11	93967	97-63	630.00	637.00	7.00	
11	93968	97-63	637.00	644.00	7.00	Stop @ 639
	The following samples from 97-63 are individually bagged.					
12	94182	97-64	345.00	355.00	10.00	Start @353
12	94183	97-64	355.00	360.00	5.00	
12	94184	97-64	360.00	365.00	5.00	
12	94185	97-64	365.00	375.00	10.00	
12	94186	97-64	375.00	381.50	6.50	
12	94187	97-64	381.50	383.00	1.50	
12	94188	97-64	383.00	383.50	0.50	
12	94189	97-64	383.50	385.00	1.50	
12	94190	97-64	385.00	390.00	5.00	
12	94193	97-64	390.00	400.00	10.00	Stop @ 392
	The following samples from 97-63 are individually bagged.					
13	94413	97-64	828.30	832.50	4.20	Start @ 831.5
13	94414	97-64	832.50	835.00	2.50	
13	94415	97-64	835.00	838.00	3.00	
13	94416	97-64	838.00	841.70	3.70	
13	94417	97-64	841.70	845.00	3.30	Stop @ 842.7
	The following samples from 97-66 are individually bagged.					
14	94255	97-66	731.50	739.30	7.80	Start @ 737.8
14	94256	97-66	739.30	740.80	1.50	
14	94257	97-66	740.80	741.50	0.70	
14	94258	97-66	741.50	743.00	1.50	
14	94259	97-66	743.00	749.50	6.50	
14	94260	97-66	749.50	750.50	1.00	
14	94261	97-66	750.50	752.50	2.00	
14	94262	97-66	752.50	755.50	3.00	
14	94263	97-66	755.50	760.00	4.50	Stop @ 757
	The following samples from 97-68 are individually bagged.					
15	94513	97-68	955.00	963.00	8.00	Start @ 960
15	94514	97-68	963.00	968.50	5.50	
15	94515	97-68	968.50	969.00	0.50	
15	94516	97-68	969.00	971.00	2.00	
15	94517	97-68	971.00	974.00	3.00	
15	94518	97-68	974.00	976.00	2.00	
15	94519	97-68	976.00	978.50	2.50	
15	94520	97-68	978.50	983.00	4.50	
15	94521	97-68	983.00	988.00	5.00	
15	94522	97-68	988.00	991.00	3.00	
15	94523	97-68	991.00	993.00	2.00	
15	94524	97-68	993.00	995.00	2.00	
16	94525	97-68	995.00	997.00	2.00	
16	94526	97-68	997.00	1002.00	5.00	
16	94527	97-68	1002.00	1006.50	4.50	
16	94528	97-68	1006.50	1007.50	1.00	
16	94529	97-68	1007.50	1008.20	0.70	
16	94530	97-68	1008.20	1015.00	6.80	
16	94531	97-68	1015.00	1025.00	10.00	
16	94532	97-68	1025.00	1030.00	5.00	
16	94533	97-68	1030.00	1035.00	5.00	
16	94534	97-68	1035.00	1037.50	2.50	
16	94535	97-68	1037.50	1039.00	1.50	
16	94536	97-68	1039.00	1045.00	6.00	Stop @ 1042

Table 1 - Pogo Phase II Quarter Core Samples For Metallurgy - WGM Inc. (March 6, 1998) Page 4

Bucket	Sample	DDH	From	To	Interval	Notes
	The following samples from 97-71 are individually bagged.					
17	94578	97-71	739.00	743.60	4.60	Start @ 741.8
17	94579	97-71	743.60	744.80	1.20	
17	94580	97-71	744.80	748.00	3.20	
17	94581	97-71	748.00	753.00	5.00	
17	94582	97-71	753.00	758.00	5.00	
17	94583	97-71	758.00	768.00	10.00	
17	94584	97-71	768.00	769.90	1.90	
17	94585	97-71	769.90	774.00	4.10	
17	94586	97-71	774.00	779.00	5.00	
17	94587	97-71	779.00	781.50	2.50	
17	94588	97-71	781.50	786.00	4.50	
17	94589	97-71	786.00	789.00	3.00	
17	94590	97-71	789.00	791.50	2.50	
17	94591	97-71	791.50	794.00	2.50	
17	94592	97-71	794.00	798.30	4.30	
17	94593	97-71	798.30	800.00	1.70	
17	94594	97-71	800.00	810.00	10.00	Stop @ 801.3
	The following samples from 97-71 are individually bagged.					
18	94787	97-71	1334.20	1337.00	2.80	Start @ 1335
18	94788	97-71	1337.00	1338.00	1.00	
18	94789	97-71	1338.00	1341.50	3.50	
18	94790	97-71	1341.50	1342.50	1.00	
18	94791	97-71	1342.50	1349.00	6.50	
18	94792	97-71	1349.00	1354.60	5.60	
18	94793	97-71	1354.60	1359.00	4.40	
18	94794	97-71	1359.00	1364.30	5.30	
18	94795	97-71	1364.30	1368.00	3.70	
19	94796	97-71	1368.00	1373.00	5.00	
19	94797	97-71	1373.00	1379.00	6.00	
19	94798	97-71	1379.00	1388.00	9.00	
19	94799	97-71	1388.00	1394.00	6.00	
19	94800	97-71	1394.00	1399.00	5.00	
19	96501	97-71	1399.00	1400.80	1.80	
19	96502	97-71	1400.80	1407.00	6.20	
19	96503	97-71	1407.00	1409.00	2.00	
19	96504	97-71	1409.00	1416.00	7.00	Stop @ 1412
	The following samples from 97-73b are individually bagged.					
20	94960	97-73b	873.00	877.50	4.50	Start @ 874.5
20	94961	97-73b	877.50	884.00	6.50	
20	94962	97-73b	884.00	885.50	1.50	
20	94963	97-73b	885.50	889.00	3.50	
20	94964	97-73b	889.00	890.00	1.00	
20	94965	97-73b	890.00	892.50	2.50	
20	94966	97-73b	892.50	893.00	0.50	
20	94967	97-73b	893.00	900.50	7.50	
20	94968	97-73b	900.50	901.50	1.00	
20	94969	97-73b	901.50	904.00	2.50	
20	94970	97-73b	904.00	908.00	4.00	
20	94971	97-73b	908.00	913.50	5.50	
20	94972	97-73b	913.50	917.50	4.00	
20	94973	97-73b	917.50	919.50	2.00	
20	94974	97-73b	919.50	921.10	1.60	
20	94975	97-73b	921.10	927.50	6.40	Stop @ 924.1
	The following samples from 97-77 are individually bagged.					
21	96840	97-77	718.00	721.10	3.10	Start @ 719.6
21	96841	97-77	721.10	722.00	0.90	
21	96842	97-77	722.00	724.00	2.00	
21	96843	97-77	724.00	726.00	2.00	
21	96844	97-77	726.00	726.50	0.50	
21	96845	97-77	726.50	730.00	3.50	
21	96846	97-77	730.00	730.50	0.50	
21	96847	97-77	730.50	739.50	9.00	

Table 1 - Pogo Phase II Quarter Core Samples For Metallurgy - WGM Inc. (March 6, 1998) Page 5

Bucket	Sample	DDH	From	To	Interval	Notes
21	96848	97-77	739.50	741.00	1.50	
21	96849	97-77	741.00	743.70	2.70	
21	96850	97-77	743.70	745.00	1.30	
21	96851	97-77	745.00	746.00	1.00	
21	96852	97-77	746.00	755.00	9.00	Stop @ 747.5
	The following samples from 97-78 are individually bagged.					
22	95592	97-78	540.00	542.50	2.50	Start @ 541.5
22	95593	97-78	542.50	544.00	1.50	
22	95594	97-78	544.00	545.50	1.50	
22	95595	97-78	545.50	547.00	1.50	
22	95596	97-78	547.00	549.00	2.00	
22	95597	97-78	549.00	551.00	2.00	
22	95598	97-78	551.00	557.00	6.00	Stop @ 552
	The following samples from 97-78 are individually bagged.					
23	95635	97-78	882.00	885.50	3.50	Start @ 884.5
23	95636	97-78	885.50	886.00	0.50	
23	95637	97-78	886.00	887.50	1.50	
23	95638	97-78	887.50	890.00	2.50	
23	95639	97-78	890.00	892.00	2.00	
23	95640	97-78	892.00	894.50	2.50	
23	95641	97-78	894.50	895.50	1.00	
23	95642	97-78	895.50	897.00	1.50	
23	95643	97-78	897.00	900.00	3.00	
23	95644	97-78	900.00	903.00	3.00	
23	95645	97-78	903.00	908.00	5.00	
23	95646	97-78	908.00	912.00	4.00	Stop @ 909.5
	The following samples from 97-79 are individually bagged.					
24	96908	97-79	1276.00	1286.00	10.00	Start @ 1284
24	96909	97-79	1286.00	1292.90	6.90	
24	96910	97-79	1292.90	1296.00	3.10	
24	96911	97-79	1296.00	1298.00	2.00	
24	96912	97-79	1298.00	1304.00	6.00	
24	96913	97-79	1304.00	1313.00	9.00	
24	96914	97-79	1313.00	1314.70	1.70	
24	96915	97-79	1314.70	1323.00	8.30	Stop @ 1316.7

Table 2 - Pogo Phase II Quarter Core Sample Summary - WGM Inc. (March 6, 1998) Page 1

Bucket	Hole	From	To
		ft.	ft.
Samples combined by intercept.			
1	97-41	939.50	958.50
2	97-61	367.00	393.50
3	97-55	799.00	814.50
4	97-45	1059.00	1089.10
5	97-43	570.60	580.60
6	97-57	636.50	662.50
7	97-50	471.00	517.00
8	97-51	897.60	931.50
9	97-55	421.00	464.50
Following samples bagged individually.			
10	97-60	651.00	677.00
11	97-63	604.00	639.00
12	97-64	363.00	392.00
13	97-64	831.50	842.70
14	97-66	737.80	757.00
15	97-68	960.00	995.00
16	97-68	995.00	1042.00
17	97-71	741.80	801.30
18	97-71	1349.00	1368.00
19	97-71	1368.00	1412.00
20	97-73b	874.50	924.10
21	97-77	719.60	747.50
22	97-78	541.50	552.00
23	97-78	884.50	909.50
24	97-79	1284.00	1316.70

NOTE

TO: FILE 831.2 (PEED)

RE: SELECTION OF DRILL CORE FOR PHASE II LAKEFIELD PROGRAM.

DATE: Jan 19/97

FROM: PETER MAC PHAIL

IN order to account for mining dilution, economic vein intercepts have been expanded by the following formula. The intention is to provide for about 15% dilution from the FW & HW.

INTERCEPT WIDTH (ft)	FW DILUTION (ft)	HW DILUTION (ft)
< 15	1	1
15-25	1.5	1.5
25-40	2	2
>40	3	3

ALSO, SAMPLES HAVE BEEN SELECTED FOR MINIMUM MINING WIDTH OF 10'. (if vein intercept is < 10', 10' of core is taken).

Pogo Project Metallurgical Composite 2 and 3 Preparation

Hole	From ft	To ft	COMPOSITE NAME	Original Prep Total Wt kg	Original Prep # 1 kg charges	Original Prep Reject kg	Sample left Sept/98 coarse kg	Sample left Sept/98 -10m kg	Sample left Sept/98 total kg	New Composite Instructions (Sept 22/98) Sample to retain coarse kg	Sample to retain -10m kg	Sample to Comp 3 coarse kg	Sample to Comp 3 -10m kg	Sample to Comp 3 total kg	Assays Au g/t	Ag g/t	Fe %	S %	As %	Bi %	Ratio As%/Auopt
97-41	939 50	958 50	97-41-1	4 1	1	0 9	2 1		2 1			2 1	0 0	2 1	17.3	3 7	2 15	1 44	0 45	0 008	0 88
97-61	367 00	393 50	97-61-1	5 4	2	0 4	2 8	1 4	4 2			2 8	1 4	4 2	4 30	2 8	1 39	0 40	0 13	0 002	1 03
97-55	799 00	814 50	97-55-2	4 3	2	0 0	2 2		2 2			2 2	0 0	2 2	25 0	2 2	0 95	0 40	0 53	0 008	0 72
97-45	1059 00	1089 10	97-45-1	7 5	3	0 3	3 8		3 8			3 8	0 0	3 8	9.32	2 5	3 09	0 63	0.56	0 003	2 04
97-43	570 60	580 60	97-43-1	2 4	1	0 0	1 2		1 2			1 2	0 0	1.2	16.1	1 5	2 07	0 42	0.005	0 009	0 01
97-57	636 50	662 50	97-57-1	7 8	3	0 2	4 3	1 7	6 0			4 3	1 7	6 0	3.08	1 5	2 89	0 15	0 11	0 002	1 21
97-50	471 00	517 00	97-50-1	11 8	5	0 1	6 3	4 1	10 4		2 0	6 3	2 1	8 4	22 8	1 7	2 43	0 57	0 45	0 007	0 67
97-51	897 60	931 50	97-51-1	10 2	5	0 0	5 0	4 0	9 0		2 0	5 0	2 0	7.0	22 8	2 5	2 58	0 48	0 25	0 006	0 37
97-55	421 00	464 50	97-55-1	13 8	6	0 9	6 5	5 8	12 3		2 0	6 5	3 8	10.3	7 02	2.0	2.57	0 71	0 87	0 002	4 21
97-60	651 00	677 00	97-60-1	8 2	4	0 3	3 6	1 3	4 9			3 6	1 3	4 9	7 10	1 3	2 62	0 56	0 72	0 002	3 45
97-63	604 00	639 00	97-63-1	11 4	5	0 4	5 7	3 4	9 1	5 7	3 4	0 0	0 0	0 0	2.59	5 2	2 61	0 52	0 40	0 002	5 25
97-64	363 00	392 00	97-64-1	6 3	2	0 9	3 1	0 9	4 0			3.1	0 9	4.0	12.1	2 2	4 18	0 82	0 38	0.004	1 07
97-64	831 50	842 70	97-64-2	3 5	1	0 5	1 8	0 5	2 3			1 8	0 5	2 3	21.6	1 7	1 51	0 68	0.26	0.01	0 41
97-66	737 80	757 00	97-66-1	5 7	2	0 9	2 6	1 9	4 5	2 6	1 9	0.0	0 0	0.0	1.44	1 0	1 79	0 36	0.07	0 002	1.65
97-68	960 00	1042 00	97-68-1	24 0	12	0 1	11 6	6 5	18 1		2 0	11.6	4 5	16 1	6 20	1.5	0 64	0 14	0.019	0 002	0 10
97-71	741 80	801 30	97-71-1	14 2	6	0 4	7 4	5 4	12 8		2 0	7 4	3 4	10 8	17.4	1 7	2 07	1 05	0 22	0 01	0 43
97-71	1349 00	1412 00	97-71-2	24 5	12	0 1	11 7	11 1	22 8		2 0	11.7	9.1	20.8	10.8	0 05	3 63	0 54	0 55	0 002	1 73
97-73b	874 50	924 10	97-73b-1	10 7	5	0 8	6 6	4 8	11 4		2 0	6 6	2 8	9 4	8 33	1 2	1 08	0 73	0 089	0 003	0 36
97-77	719 60	747 50	97-77-1	8 4	3	0 9	4 2	2 9	7 1			4 2	2 9	7.1	12 7	6.5	2.36	0 67	0.080	0 007	0 21
97-78	541 50	552 00	97-78-1	3 5	1	0 5	1 8		1 8			1 8	0 0	1 8	8 13	0 5	1.49	0 27	0.10	0 002	0 42
97-78	884 50	909 50	97-78-2	6 0	2	0 8	2 9	1 8	4 7			2 9	1 8	4 7	15.0	2 3	1.34	0 40	0 14	0 006	0 32
97-79	1284 00	1316 70	97-79-1	10 5	5	0 0	5 2	2 5	7 7			5 2	2 5	7.7	4.86	0 8	2 02	0 25	0 37	0 002	2 59
Composite2								20 0	20 0			0 0	20 0	20 0	12 55	1 8	2 19	0 58	0 36	0 004	0 98
totals				204 3	88 0	9 4	102 4	60 0	162 4	8 3	19 3	94 1	40.7	134.8	13.30	2 0	2.56	0 63	0 39	0 005	0 99

PHASE 3 SAMPLES
Composite 4

TECK CORPORATION

FAX MEMORANDUM

Suite 600, 200 Burrard Street
Vancouver, B.C., Canada
V6C 3L9

PH: (604) 687-1117
FAX: (604) 640-5385

TO: KIETH SARBUTT

FAX NO: (705) 652-5213

FROM: P. MACPHAIL

DATE: MARCH 12/97

Pages Transmitted: 2
An original of this FAX will not be sent by mail.

RE: POGO SAMPLE PREP

- SEE ATTACHED + E-MAIL.
- PLEASE PREPARE A SAMPLE PREP FLOW CHART.

Pete

407

MARCH 12/99

POGO 1/4 CORE COMPOSITING

GENERAL IDEA:

- MAINTAIN 30 INDIVIDUAL INTERVAL COMPOSITES FOR FUTURE VARIABILITY WORK (4 Kg EACH)
- COMBINE REMAINING 1/4 CORE INTO 5 ZONE COMPS.
- RUN GRINDING TESTWORK ON THE 5 COMPS BOND RM, BM, ABRASION.
- RECOMBINE DRY GRINDING PRODUCTS WITH APPROPRIATE COMPOSITE

POGO ASSAY REJECT COMPOSITING

- COMBINE THE ASSAY REJECT SAMPLES INTO ONE OF 5 ZONE COMPOSITES

IN THE END, WE WILL HAVE 30, 4 Kg INTERVAL COMPOSITES (120 Kg) AND 10 ZONE COMPOSITES (FIVE EACH FROM CORE AND ASSAY REJECTS).

THE 10 COMPOSITES TOTAL WEIGHT WILL BE ABOUT 750 Kg AT A HEADGRADE OF 0.45 - 0.5 oz/t.

CALL ME TO DISCUSS BEFORE YOU PROCEED.

ISSUES: SIZE REDUCTION WHEN?

Quarter Core Compositing - 1998 Core

Zone Composite	Sample-ID	Wt. At LR Kg	Interval Comp - 1/2 inch Kg	Zone Comp - 1/2 inch Kg	Assays Au (oz/t)	As(%)
L1-C-north	98-089-1	3.3		3.3	1.757	1.59
	98-097-1	4.9		4.9	0.128	0.00
	98-105-1	3.6		3.6	0.111	0.37
	98-109-1	9.4	4	5.4	0.576	0.15
	98-118-1	4.7		4.7	0.368	0.47
	98-119-1	6.4	4	2.4	0.128	0.04
	98-124-1	3.7		3.7	0.623	0.79
	98-133-1	4.3		4.3	0.232	0.11
	98-146-1	5.7	4	1.7	1.238	1.21
	98-151-1	6	4	2	0.356	0.44
	Total			**36**	**0.502**	**0.45**
L1-C-south	98-090-1	5.8	4	1.8	0.313	0.21
	98-103-1	4.6		4.6	0.334	0.02
	98-104-1	4.1		4.1	0.221	0.09
	98-107-1	4.4		4.4	0.176	0.44
	98-113-1	5.4	4	1.4	0.394	0.15
	98-116-1	4		4	0.293	0.11
	98-141-1	5.6	4	1.6	1.459	1.06
	98-149-1	5.1	4	1.1	0.253	0.01
	98-152-1	3.3		3.3	0.257	0.10
	98-170-1	2.5		2.5	0.541	0.93
	98-174-1	10.4	4	6.4	0.333	0.05
	Total			**35.2**	**0.354**	**0.23**
L1-C-east	98-092-1	7	4	3	1.368	0.93
	98-098-1	7	4	3	1.246	0.72
	98-101-1	5.1	4	1.1	0.661	0.26
	98-102-1	5.2	4	1.2	1.003	0.22
	98-139-1	3.9		3.9	0.372	0.71
	98-142-1	5.7	4	1.7	1.279	0.25
	98-150-1	3.8		3.8	1.076	1.08
	98-158-1	4.4		4.4	0.484	0.79
	98-166-1	8.4	4	4.4	0.300	0.38
	98-167-1	5.8	4	1.8	0.521	1.27
	98-171-1	3.7		3.7	0.171	0.92
	Total			**32**	**0.703**	**0.74**
L1-C-central	98-084-1	9.7	4	5.7	0.303	1.07
	98-088-1	8.9	4	4.9	0.513	0.41
	98-129-1	6	4	2	0.323	0.24
	98-138-1	5.8	4	1.8	0.203	0.36
	98-148-1	7.4	4	3.4	0.264	0.45
	98-154-1	8	4	4	0.259	0.41
	98-157-1	32.6	4	28.6	0.651	0.31
	98-163-1	6	4	2	0.173	0.06
	98-172-1	8.7	4	4.7	0.482	0.58
	Total			**57.1**	**0.498**	**0.42**
L2-C-all	98-087-2	3.9		3.9	0.583	4.00
	98-091-2	5	4	1 / 5	0.196	0.04
	98-098-2	6		2 6	1.462	1.63
	98-102-2	7.8	4	3.8	0.771	0.99
	98-158-2	8.9	4	~~4.9~~	0.577	0.71
	98-171-2	8.4	4	4.4	0.286	0.28
	Total			~~20~~ 23.1	**0.621**	**1.37**

ELIMINATED THESE 2 SAMPLE

Assay Reject Compositing - 1998 Rejects

Zone Composite	HOLE_ID	SAMPLE_NO	Wt. at LR Kg	AU	AS
L1-R-north	98-089	8536	3.61	0.021	0.05
	98-089	8537	2.24	0.052	0.22
	98-089	8538	3.19	4.759	3.65
	98-089	8539	1.04	0.041	1.02
	98-097	328184	0.59	0.004	0.00
	98-097	328185	1.15	0.747	0.01
	98-097	328186	2.64	0.056	0.00
	98-097	328187	2.73	0.008	0.00
	98-097	328188	4.25	0.008	0.00
	98-105	328348	1.50	0.039	0.37
	98-105	328349	1.07	0.078	0.30
	98-105	328350	0.63	0.240	0.18
	98-105	328451	1.50	0.187	0.67
	98-108	328632	4.76	0.762	0.18
	98-108	328633	2.63	0.703	0.21
	98-108	328634	2.83	0.104	0.25
	98-109	328489	0.65	0.007	0.10
	98-109	328490	0.97	1.603	1.00
	98-109	328491	1.44	0.756	0.41
	98-109	328492	3.14	0.886	0.07
	98-109	328493	1.33	0.007	0.01
	98-109	328494	1.02	1.072	0.18
	98-109	328495	2.15	0.411	0.02
	98-109	328496	1.82	0.783	0.01
	98-109	328497	1.11	0.092	0.01
	98-109	328498	1.29	0.239	0.01
	98-112	328804	3.57	0.016	0.10
	98-118	328977	2.68	0.035	0.02
	98-118	328992	1.11	0.535	0.50
	98-118	328979	0.70	0.190	0.50
	98-118	328980	2.64	0.810	0.99
	98-118	328981	4.75	0.008	0.01
	98-119	328881	2.22	0.080	0.06
	98-119	328882	2.88	0.321	0.04
	98-119	328883	2.41	0.158	0.05
	98-119	328884	2.55	0.014	0.01
	98-119	328885	2.17	0.045	0.04
	98-122	324057	1.15	0.002	0.01
	98-122	324058	0.72	0.002	0.00
	98-122	324059	1.00	0.001	0.00
	98-122	324060	5.10	0.001	0.02
	98-146	325553	2.23	0.071	1.63
	98-146	325554	0.60	0.144	0.90
	98-146	325555	1.01	1.371	1.05
	98-146	325556	1.16	3.514	0.96
	98-146	325557	1.43	1.358	1.82
	98-146	325558	0.58	0.395	1.58
	98-146	325559	1.53	0.013	0.07
	98-151	325608	2.46	1.070	0.61
	98-151	325609	1.73	0.113	0.44
	98-151	325610	1.24	0.022	0.37
	Total		**100.88**	**0.471**	**0.37**
L1-R-south	98-083	8623	6.93	0.137	0.01
	98-083	8624	7.46	0.005	0.00
	98-090	9836	1.29	0.002	0.01
	98-090	9837	0.53	0.059	0.11
	98-090	9838	0.70	0.220	0.15
	98-090	9839	0.54	0.255	0.14
	98-090	9840	0.87	1.095	0.95
	98-090	9841	0.19	0.071	0.10
	98-090	9842	0.36	0.587	0.08
	98-090	9843	0.61	0.211	0.02
	98-090	9844	0.34	0.041	0.00

	98-090	9845	0.02	0.004	0.00
	98-090	9846	0.52	0.314	0.26
	98-090	9847	0.44	0.048	0.16
	98-090	9848	1.80	0.024	0.07
	98-094	9895	2.25	0.120	0.00
	98-094	9896	4.15	0.000	0.00
	98-103	328368	2.93	0.001	0.01
	98-103	328369	1.72	0.834	0.02
	98-103	328370	0.17	0.442	0.05
	98-103	328371	1.11	0.231	0.01
	98-103	328372	2.57	0.196	0.02
	98-104	328224	2.99	0.251	0.14
	98-104	328225	1.09	0.603	0.30
	98-104	328226	1.19	0.635	0.15
	98-104	328227	6.07	0.001	0.00
	98-107	328557	0.17	0.019	0.48
	98-107	328558	0.21	0.019	0.34
	98-107	328559	1.94	0.022	0.57
	98-107	328560	0.92	0.016	0.38
	98-107	328561	0.67	0.402	0.55
	98-107	328562	0.69	0.415	0.23
	98-107	328563	3.94	0.031	0.32
	98-111	328761	1.43	0.146	0.06
	98-111	328762	1.20	0.001	0.00
	98-111	328763	3.53	0.001	0.00
	98-113	328850	0.76	0.016	0.01
	98-113	328851	3.83	0.799	0.02
	98-113	328852	1.87	0.187	0.56
	98-116	328910	2.53	0.019	0.04
	98-116	328911	2.30	0.297	0.31
	98-116	328912	1.52	0.535	0.01
	98-116	328913	2.24	0.063	0.01
	98-141	325457	1.48	1.688	2.77
	98-141	325458	1.33	0.411	0.62
	98-141	325459	2.74	3.553	0.73
	98-141	325460	2.02	0.127	0.12
	98-144	325509	2.22	0.113	0.61
	98-144	325510	2.09	2.136	0.02
	98-144	325511	2.02	0.133	0.05
	98-144	325512	2.59	0.509	0.23
	98-144	325513	1.49	0.591	0.96
	98-149	324616	0.72	0.006	0.01
	98-149	324617	1.50	1.425	0.01
	98-149	324618	3.93	0.004	0.01
	98-149	324619	2.88	0.002	0.00
	98-149	324620	1.68	0.310	0.06
	98-152	325397	4.86	0.121	0.20
	98-152	325398	1.69	0.430	0.07
	98-152	325399	0.90	0.235	0.09
	98-170	326026	0.76	0.122	0.22
	98-170	326019	0.74	1.620	1.87
	98-170	326027	1.09	0.622	2.05
	98-170	326020	0.52	0.079	0.19
	98-170	326021	1.39	0.078	0.01
	98-174	326207	2.46	0.783	0.28
	98-174	326208	2.35	0.049	0.00
	98-174	326209	2.54	0.026	0.02
	98-174	326210	2.00	0.424	0.01
	Total		**128.55**	**0.335**	**0.19**
L1-R-east	98-091	8680	2.54	0.399	0.07
	98-092	9975	2.89	0.000	0.07
	98-092	9976	0.82	0.000	0.03
	98-092	9977	2.58	0.000	0.02
	98-092	9978	3.02	4.418	0.20
	98-092	9979	1.62	2.226	0.46

98-092	9980	3.02	0.700	2.95
98-092	9981	3.29	0.824	1.27
98-098	9788	0.73	0.020	0.30
98-098	9789	0.08	3.610	5.95
98-098	9790	0.29	1.016	0.14
98-098	9791	0.17	2.510	0.21
98-098	9792	0.79	2.555	0.22
98-098	9793	1.38	1.533	0.02
98-098	9794	0.20	2.503	0.01
98-098	9795	0.16	0.964	0.02
98-098	9796	0.25	0.450	0.05
98-098	9797	0.18	0.403	0.27
98-098	9798	0.89	0.161	0.56
98-098	9799	0.25	0.719	1.99
98-098	9800	0.41	0.487	1.78
98-098	328051	0.61	0.055	0.77
98-098	328052	1.81	1.993	0.95
98-101	328110	0.91	0.098	0.09
98-101	328111	1.74	0.323	0.18
98-101	328112	2.38	0.740	0.45
98-101	328113	2.52	1.329	0.31
98-101	328114	1.90	0.014	0.02
98-102	328090	2.58	0.129	0.21
98-102	328091	1.23	0.947	0.09
98-102	328092	1.58	0.766	0.02
98-102	328093	2.20	2.287	0.11
98-102	328094	2.92	0.195	0.47
98-102	328095	2.74	0.943	0.36
98-139	325342	0.76	0.730	3.51
98-139	325343	0.88	0.608	0.04
98-139	325344	2.31	0.199	0.55
98-139	325345	1.52	0.364	0.04
98-142	324480	2.46	0.034	0.04
98-142	324481	1.54	2.583	0.05
98-142	324482	1.70	1.174	0.70
98-142	324483	2.18	0.039	0.25
98-150	324574	0.93	1.282	0.76
98-150	324575	0.94	1.678	3.52
98-150	324576	0.72	2.858	1.00
98-150	324577	0.99	0.240	0.66
98-150	324578	1.11	0.072	0.54
98-158	324658	0.89	2.238	2.07
98-158	324659	2.54	0.028	0.84
98-158	324660	3.17	0.024	0.03
98-166	324682	1.66	0.022	0.01
98-166	324683	1.57	0.659	0.14
98-166	324684	5.04	0.038	0.01
98-166	324685	0.64	0.063	0.03
98-166	324686	2.95	0.278	0.03
98-166	324687	1.03	0.996	3.03
98-166	324688	1.30	0.056	0.78
98-167	325913	1.81	0.376	0.25
98-167	325914	2.70	0.961	2.32
98-167	325915	1.65	0.390	1.65
98-169	324948	0.80	0.032	0.03
98-169	324949	0.21	0.807	1.22
98-169	324950	5.54	0.011	0.00
98-171	325976	0.48	0.948	5.26
98-171	325977	3.48	0.134	0.60
98-171	325978	0.21	0.179	1.27
98-171	325979	3.80	0.013	0.09
98-173	326072	1.14	0.058	0.55
98-173	326073	0.68	0.549	0.74
98-173	326074	2.78	0.059	0.39
98-173	326075	2.62	0.819	0.82
98-176	326104	0.15	0.009	0.01
98-176	326105	0.42	0.279	1.68
98-176	326106	1.05	0.016	0.20

	Total		**119.00**	**0.642**	**0.56**
L1-R-central	98-084	8568	2.88	0.001	0.01
	98-084	8569	3.48	0.110	0.08
	98-084	8570	2.48	0.347	0.14
	98-084	8571	1.73	1.175	0.24
	98-084	8572	1.25	0.026	0.32
	98-084	8573	3.34	0.116	0.14
	98-084	8574	4.57	0.073	0.10
	98-084	8575	3.28	0.086	0.69
	98-084	8576	2.67	0.496	4.46
	98-084	8577	4.24	0.783	3.52
	98-088	8598	3.80	0.008	0.01
	98-088	8599	2.62	1.115	0.01
	98-088	8600	1.49	0.529	0.02
	98-088	9901	3.33	0.219	0.00
	98-088	9902	1.71	0.218	0.00
	98-088	9903	1.44	0.096	0.01
	98-088	9904	1.21	0.659	0.05
	98-088	9905	0.52	0.008	0.06
	98-088	9906	1.50	1.000	1.02
	98-088	9907	2.76	1.341	3.03
	98-088	9908	2.37	0.069	0.99
	98-129	324223	0.75	0.000	0.00
	98-129	324224	1.26	0.001	0.00
	98-129	324225	0.46	0.156	0.99
	98-129	324226	4.03	0.146	0.40
	98-129	324227	0.72	0.032	0.05
	98-129	324228	0.15	0.418	0.30
	98-129	324229	1.59	1.462	0.28
	98-129	324230	0.96	0.449	0.23
	98-129	324231	1.13	0.004	0.01
	98-138	324426	0.95	0.009	0.00
	98-138	324427	1.79	0.528	0.11
	98-138	324428	1.79	0.204	0.01
	98-138	324429	3.17	0.038	0.90
	98-148	324540	2.29	0.225	0.01
	98-148	324541	2.41	0.614	0.11
	98-148	324542	4.08	0.415	1.16
	98-148	324543	1.57	0.222	1.04
	98-154	325675	2.07	0.001	0.00
	98-154	325676	2.59	0.008	0.03
	98-154	325677	2.59	0.031	0.06
	98-154	325678	2.50	1.158	0.99
	98-154	325679	2.35	0.086	0.94
	98-157	324748	5.67	0.001	0.02
	98-157	324749	0.87	0.024	0.01
	98-157	324801	0.86	3.108	0.01
	98-157	324802	1.51	0.120	0.01
	98-157	324803	1.91	0.415	0.01
	98-157	324804	1.40	0.306	0.02
	98-157	324805	1.95	0.176	0.00
	98-157	324806	2.67	0.021	0.08
	98-157	324807	1.62	0.008	0.06
	98-157	324808	0.07	0.003	0.03
	98-157	324809	1.97	0.010	0.01
	98-157	324810	0.47	0.001	0.02
	98-157	324811	1.27	0.008	0.08
	98-157	324812	1.70	0.006	0.02
	98-157	324813	2.77	0.587	0.07
	98-157	324815	2.30	2.102	0.37
	98-157	324816	2.07	2.868	1.60
	98-157	324817	0.60	3.783	0.69
	98-157	324818	1.26	0.714	0.03
	98-157	324819	2.43	0.750	0.02
	98-157	324820	0.88	1.819	0.13
	98-157	324821	0.73	0.661	4.29
	98-157	324822	0.70	0.013	0.12
	98-157	324823	0.83	0.168	1.82
	98-157	324824	0.89	0.034	0.14
	98-157	324825	2.19	0.347	0.50
	98-157	324826	1.36	0.419	0.11
	98-157	324827	1.98	0.280	0.07
	98-157	324828	1.00	0.541	0.55
	98-157	324829	3.24	0.013	0.11

	98-163	324838	1.61	0.014	0.12
	98-163	324839	1.31	0.009	0.03
	98-163	324840	3.01	0.003	0.00
	98-163	324841	1.75	0.001	0.00
	98-163	324842	1.86	0.007	0.32
	98-163	324843	2.58	0.144	0.01
	98-163	324844	1.58	1.194	0.01
	98-163	324845	3.61	0.015	0.01
	98-172	326268	1.96	0.337	0.10
	98-172	326269	2.70	0.117	0.44
	98-172	326270	1.15	0.863	5.62
	98-172	326272	0.68	0.080	0.65
	Total		**166.76**	**0.380**	**0.50**
L2-R-all	98-087	8737	1.49	0.113	0.88
	98-087	8738	2.21	0.969	1.59
	98-087	8739	1.32	0.599	1.04
	98-087	8740	2.03	0.030	0.26
	98-087	8741	1.59	0.336	2.07
	98-087	8742	1.87	1.000	9.55
	98-087	8743	3.30	0.015	0.58
	98-091	8687	1.94	0.081	0.01
	98-091	8688	1.81	0.267	0.06
	98-091	8689	6.26	0.180	0.04
	98-098	328072	3.85	0.029	0.15
	98-098	328073	0.69	0.467	0.09
	98-098	328074	0.37	0.062	0.22
	98-098	328075	1.94	4.643	1.58
	98-098	328076	2.12	1.334	6.18
	98-098	328077	3.64	0.529	1.14
	98-102	328410	2.79	0.445	1.71
	98-102	328411	3.92	1.212	0.27
	98-102	328412	3.24	1.356	0.51
	98-102	328413	1.42	0.634	0.95
	98-102	328414	2.28	0.167	2.61
	98-102	328415	2.83	0.041	0.35
	98-139	324457	3.16	0.220	1.88
	98-139	324458	0.21	1.964	0.13
	98-139	324459	1.05	0.127	0.02
	98-150	324594	2.02	0.230	3.30
	98-150	324595	3.49	0.035	1.96
	98-150	324596	6.94	0.007	0.25
	98-158	324669	1.94	2.566	0.03
	98-158	324670	2.35	0.012	0.03
	98-158	324671	1.20	0.271	0.10
	98-158	324672	4.05	0.099	0.40
	98-158	324673	2.01	1.047	3.13
	98-158	324674	3.29	0.440	0.97
	98-171	325880	0.84	1.182	0.06
	98-171	325881	3.00	0.002	0.01
	98-171	325882	2.22	0.132	0.02
	98-171	325883	0.13	2.770	0.41
	98-171	325884	2.22	0.214	0.36
	98-171	325885	2.80	0.245	1.07
	98-171	325886	1.86	0.013	0.16
	Total		**97.65**	**0.485**	**1.06**

831.3 LAKEFIELD PHASE II SAMPLES

TECK CORPORATION

FAX MEMORANDUM

Suite 600, 200 Burrard Street
Vancouver, B.C., Canada
V6C 3L9

PH: (604) 687-1117
FAX: (604) 640-5385

TO: Wally Toupe – Chemex Fairbanks

DATE: 21/01/99

FROM: Peter MacPhail

FAX NO.: **907 452 2227**

An original of this FAX will not be sent by mail.

As discussed over the phone today, we would like you to locate and ship approximately 458 coarse assay reject samples from the 1998 Pogo exploration program. I have sent you an excell spreadsheet of the sample numbers today. If you do not receive it, or are unable to open it, please let me know and I will fax the list to you.

Please insure the samples are marked by sample number.

I believe we air freighted the samples last year, could you confirm this? Who organised the shipping?

The address to send the samples to is:

Lakefield Research
Postal Bag 4300
185 Concession Street
Lakefield, On, Canada
K0L 2H0

Attention : Keith Sarbutt

Thank You

Peter MacPhail
Project Metallurgist
Teck Corp.

SAMPLE_NO	HOLE_ID	FROM	TO	ft	Kg (est)
8623	98-083	780.50	790.50	10.00	4.40
8624	98-083	790.50	800.50	10.00	4.40
8568	98-084	944.00	949.00	5.00	2.20
8569	98-084	949.00	954.00	5.00	2.20
8570	98-084	954.00	959.00	5.00	2.20
8571	98-084	959.00	962.00	3.00	1.32
8572	98-084	962.00	964.50	2.50	1.10
8573	98-084	964.50	970.00	5.50	2.42
8574	98-084	970.00	977.00	7.00	3.08
8575	98-084	977.00	982.00	5.00	2.20
8576	98-084	982.00	987.00	5.00	2.20
8577	98-084	987.00	992.00	5.00	2.20
8578	98-084	992.00	1002.00	10.00	4.40
9769	98-085	855.00	859.00	4.00	1.76
9770	98-085	859.00	865.00	6.00	2.64
9771	98-085	865.00	870.00	5.00	2.20
9772	98-085	870.00	874.00	4.00	1.76
8666	98-086	1306.00	1316.50	10.50	4.62
8667	98-086	1316.50	1318.50	2.00	0.88
8668	98-086	1318.50	1330.00	11.50	5.06
8669	98-086	1330.00	1337.50	7.50	3.30
8670	98-086	1337.50	1347.00	9.50	4.18
8737	98-087	1009.00	1011.00	2.00	0.88
8738	98-087	1011.00	1014.20	3.20	1.41
8739	98-087	1014.20	1016.00	1.80	0.79
8740	98-087	1016.00	1020.00	4.00	1.76
8741	98-087	1020.00	1022.30	2.30	1.01
8742	98-087	1022.30	1030.10	7.80	3.43
8743	98-087	1030.10	1034.80	4.70	2.07
8598	98-088	923.50	928.50	5.00	2.20
8599	98-088	928.50	932.00	3.50	1.54
8600	98-088	932.00	935.00	3.00	1.32
9901	98-088	935.00	940.00	5.00	2.20
9902	98-088	940.00	945.00	5.00	2.20
9903	98-088	945.00	948.00	3.00	1.32
9904	98-088	948.00	951.50	3.50	1.54
9905	98-088	951.50	952.50	1.00	0.44
9906	98-088	952.50	955.00	2.50	1.10
9907	98-088	955.00	958.00	3.00	1.32
9908	98-088	958.00	962.00	4.00	1.76
8536	98-089	1386.40	1392.00	5.60	2.46
8537	98-089	1392.00	1395.70	3.70	1.63
8538	98-089	1395.70	1400.50	4.80	2.11
8539	98-089	1400.50	1403.00	2.50	1.10
8540	98-089	1403.00	1406.20	3.20	1.41
9836	98-090	710.00	712.20	2.20	0.97
9837	98-090	712.20	714.20	2.00	0.88
9838	98-090	714.20	716.00	1.80	0.79
9839	98-090	716.00	720.00	4.00	1.76
9840	98-090	720.00	723.00	3.00	1.32
9841	98-090	723.00	724.00	1.00	0.44
9842	98-090	724.00	727.00	3.00	1.32
9843	98-090	727.00	728.50	1.50	0.66
9844	98-090	728.50	730.00	1.50	0.66
9845	98-090	730.00	730.50	0.50	0.22
9846	98-090	730.50	732.00	1.50	0.66
9847	98-090	732.00	734.00	2.00	0.88
9848	98-090	734.00	738.00	4.00	1.76
8680	98-091	503.00	507.00	4.00	1.76
8687	98-091	735.00	740.00	5.00	2.20
8688	98-091	740.00	747.00	7.00	3.08
8689	98-091	747.00	757.00	10.00	4.40
8690	98-091	757.00	765.00	8.00	3.52
9975	98-092	623.00	628.00	5.00	2.20

9976	98-092	628.00	630.00	2.00	0.88
9977	98-092	630.00	634.00	4.00	1.76
9978	98-092	634.00	639.00	5.00	2.20
9979	98-092	639.00	642.00	3.00	1.32
9980	98-092	642.00	647.00	5.00	2.20
9981	98-092	647.00	652.00	5.00	2.20
9982	98-092	652.00	662.00	10.00	4.40
9986	98-092	1200.00	1210.00	10.00	4.40
9930	98-093	896.00	901.00	5.00	2.20
9931	98-093	901.00	904.00	3.00	1.32
9932	98-093	904.00	909.00	5.00	2.20
9933	98-093	909.00	914.00	5.00	2.20
9894	98-094	997.00	1007.00	10.00	4.40
9895	98-094	1007.00	1010.60	3.60	1.58
9896	98-094	1010.60	1017.00	6.40	2.82
8548	98-095	823.50	827.50	4.00	1.76
8549	98-095	827.50	839.00	11.50	5.06
325362	98-096	497.00	501.75	4.75	2.09
328202	98-096	501.75	508.00	6.25	2.75
325363	98-096	508.00	513.30	5.30	2.33
328207	98-096	689.50	696.50	7.00	3.08
328208	98-096	696.50	704.00	7.50	3.30
328212	98-096	704.00	711.25	7.25	3.19
328184	98-097	901.00	906.00	5.00	2.20
328185	98-097	906.00	908.30	2.30	1.01
328186	98-097	908.30	912.50	4.20	1.85
328187	98-097	912.50	916.50	4.00	1.76
328188	98-097	916.50	923.20	6.70	2.95
9788	98-098	373.00	377.00	4.00	1.76
9789	98-098	377.00	378.00	1.00	0.44
9790	98-098	378.00	379.50	1.50	0.66
9791	98-098	379.50	380.50	1.00	0.44
9792	98-098	380.50	382.50	2.00	0.88
9793	98-098	382.50	385.00	2.50	1.10
9794	98-098	385.00	386.00	1.00	0.44
9795	98-098	386.00	387.00	1.00	0.44
9796	98-098	387.00	388.00	1.00	0.44
9797	98-098	388.00	389.00	1.00	0.44
9798	98-098	389.00	391.00	2.00	0.88
9799	98-098	391.00	392.00	1.00	0.44
9800	98-098	392.00	393.00	1.00	0.44
328051	98-098	393.00	394.50	1.50	0.66
328052	98-098	394.50	398.00	3.50	1.54
328053	98-098	398.00	403.00	5.00	2.20
328072	98-098	706.00	711.00	5.00	2.20
328073	98-098	711.00	716.50	5.50	2.42
328074	98-098	716.50	718.00	1.50	0.66
328075	98-098	718.00	723.00	5.00	2.20
328076	98-098	723.00	726.50	3.50	1.54
328077	98-098	726.50	733.00	6.50	2.86
328021	98-099	888.00	891.00	3.00	1.32
328022	98-099	891.00	895.50	4.50	1.98
328023	98-099	895.50	900.50	5.00	2.20
328024	98-099	900.50	906.50	6.00	2.64
328109	98-101	458.00	463.00	5.00	2.20
328110	98-101	463.00	465.50	2.50	1.10
328111	98-101	465.50	469.00	3.50	1.54
328112	98-101	469.00	473.50	4.50	1.98
328113	98-101	473.50	479.00	5.50	2.42
328114	98-101	479.00	482.00	3.00	1.32
328090	98-102	380.00	384.00	4.00	1.76
328091	98-102	384.00	387.00	3.00	1.32
328092	98-102	387.00	390.00	3.00	1.32
328093	98-102	390.00	395.00	5.00	2.20
328094	98-102	395.00	399.00	4.00	1.76

328095	98-102	399.00	404.00	5.00	2.20
328096	98-102	404.00	407.00	3.00	1.32
328409	98-102	715.00	720.00	5.00	2.20
328410	98-102	720.00	725.00	5.00	2.20
328411	98-102	725.00	731.00	6.00	2.64
328412	98-102	731.00	737.00	6.00	2.64
328413	98-102	737.00	741.00	4.00	1.76
328414	98-102	741.00	744.50	3.50	1.54
328415	98-102	744.50	749.50	5.00	2.20
328368	98-103	785.00	790.00	5.00	2.20
328369	98-103	790.00	793.50	3.50	1.54
328370	98-103	793.50	794.50	1.00	0.44
328371	98-103	794.50	796.50	2.00	0.88
328372	98-103	796.50	801.50	5.00	2.20
328373	98-103	801.50	808.00	6.50	2.86
328224	98-104	515.00	520.00	5.00	2.20
328225	98-104	520.00	522.25	2.25	0.99
328226	98-104	522.25	524.20	1.95	0.86
328227	98-104	524.20	533.50	9.30	4.09
328232	98-104	816.40	817.40	1.00	0.44
328347	98-105	425.10	433.60	8.50	3.74
328348	98-105	433.60	436.50	2.90	1.28
328349	98-105	436.50	438.50	2.00	0.88
328350	98-105	438.50	440.10	1.60	0.70
328451	98-105	440.10	444.00	3.90	1.72
328452	98-105	444.00	451.50	7.50	3.30
328556	98-107	897.00	898.50	1.50	0.66
328557	98-107	898.50	899.25	0.75	0.33
328558	98-107	899.25	900.00	0.75	0.33
328559	98-107	900.00	904.00	4.00	1.76
328560	98-107	904.00	906.50	2.50	1.10
328561	98-107	906.50	910.20	3.70	1.63
328562	98-107	910.20	913.00	2.80	1.23
328563	98-107	913.00	918.00	5.00	2.20
328631	98-108	545.00	555.00	10.00	4.40
328632	98-108	555.00	562.00	7.00	3.08
328633	98-108	562.00	568.00	6.00	2.64
328634	98-108	568.00	573.00	5.00	2.20
328489	98-109	476.00	478.00	2.00	0.88
328490	98-109	478.00	480.00	2.00	0.88
328491	98-109	480.00	483.00	3.00	1.32
328492	98-109	483.00	487.50	4.50	1.98
328493	98-109	487.50	490.00	2.50	1.10
328494	98-109	490.00	492.00	2.00	0.88
328495	98-109	492.00	496.00	4.00	1.76
328496	98-109	496.00	499.00	3.00	1.32
328497	98-109	499.00	501.00	2.00	0.88
328498	98-109	501.00	503.50	2.50	1.10
328499	98-109	503.50	513.10	9.60	4.22
328760	98-111	581.00	588.80	7.80	3.43
328761	98-111	588.80	591.70	2.90	1.28
328762	98-111	591.70	594.00	2.30	1.01
328763	98-111	594.00	600.00	6.00	2.64
328804	98-112	547.00	554.00	7.00	3.08
328449	98-113	952.00	959.20	7.20	3.17
328450	98-113	959.20	962.00	2.80	1.23
328851	98-113	962.00	969.00	7.00	3.08
328852	98-113	969.00	972.00	3.00	1.32
328853	98-113	972.00	978.00	6.00	2.64
328910	98-116	768.00	773.00	5.00	2.20
328911	98-116	773.00	777.00	4.00	1.76
328912	98-116	777.00	781.00	4.00	1.76
328913	98-116	781.00	785.00	4.00	1.76
328977	98-118	533.00	537.00	4.00	1.76
328992	98-118	537.00	539.00	2.00	0.88

328979	98-118	539.00	541.40	2.40	1.06
328980	98-118	541.40	545.80	4.40	1.94
328981	98-118	545.80	554.00	8.20	3.61
328881	98-119	742.50	746.00	3.50	1.54
328882	98-119	746.00	750.00	4.00	1.76
328883	98-119	750.00	755.50	5.50	2.42
328884	98-119	755.50	760.00	4.50	1.98
328885	98-119	760.00	764.00	4.00	1.76
328829	98-120	738.60	748.00	9.40	4.14
328776	98-121	617.00	619.90	2.90	1.28
328777	98-121	619.90	622.00	2.10	0.92
328778	98-121	622.00	623.40	1.40	0.62
328779	98-121	623.40	624.70	1.30	0.57
328780	98-121	624.70	631.40	6.70	2.95
324056	98-122	310.50	318.00	7.50	3.30
324057	98-122	318.00	320.90	2.90	1.28
324058	98-122	320.90	322.90	2.00	0.88
324059	98-122	322.90	325.00	2.10	0.92
324060	98-122	325.00	332.50	7.50	3.30
324121	98-123	711.00	713.00	2.00	0.88
324122	98-123	713.00	717.00	4.00	1.76
324123	98-123	717.00	722.00	5.00	2.20
324124	98-123	722.00	725.50	3.50	1.54
324125	98-123	725.50	735.50	10.00	4.40
328945	98-124	531.00	535.00	4.00	1.76
328946	98-124	535.00	545.00	10.00	4.40
328947	98-124	545.00	550.50	5.50	2.42
324163	98-125	560.00	570.90	10.90	4.80
324164	98-125	570.90	574.70	3.80	1.67
324165	98-125	574.70	582.00	7.30	3.21
324166	98-125	582.00	591.00	9.00	3.96
324223	98-129	639.00	641.00	2.00	0.88
324224	98-129	641.00	644.00	3.00	1.32
324225	98-129	644.00	645.50	1.50	0.66
324226	98-129	645.50	652.00	6.50	2.86
324227	98-129	652.00	656.00	4.00	1.76
324228	98-129	656.00	659.00	3.00	1.32
324229	98-129	659.00	662.40	3.40	1.50
324230	98-129	662.40	668.00	5.60	2.46
324231	98-129	668.00	674.50	6.50	2.86
325247	98-130	687.50	689.50	2.00	0.88
325248	98-130	689.50	691.50	2.00	0.88
325249	98-130	691.50	701.00	9.50	4.18
325140	98-133	633.20	635.50	2.30	1.01
325141	98-133	635.50	639.00	3.50	1.54
325142	98-133	639.00	643.90	4.90	2.16
325143	98-133	643.90	647.50	3.60	1.58
325144	98-133	647.50	655.00	7.50	3.30
328842	98-137	1013.50	1018.50	5.00	2.20
328843	98-137	1018.50	1022.00	3.50	1.54
328844	98-137	1022.00	1023.50	1.50	0.66
328845	98-137	1023.50	1026.80	3.30	1.45
328846	98-137	1026.80	1028.00	1.20	0.53
328847	98-137	1028.00	1033.00	5.00	2.20
324426	98-138	1202.70	1205.10	2.40	1.06
324427	98-138	1205.10	1209.00	3.90	1.72
324428	98-138	1209.00	1213.10	4.10	1.80
324429	98-138	1213.10	1220.00	6.90	3.04
325341	98-139	416.00	423.00	7.00	3.08
325342	98-139	423.00	425.50	2.50	1.10
325343	98-139	425.50	429.00	3.50	1.54
325344	98-139	429.00	433.50	4.50	1.98
325345	98-139	433.50	437.00	3.50	1.54
325346	98-139	437.00	446.00	9.00	3.96
324456	98-139	656.50	665.50	9.00	3.96

324457	98-139	665.50	672.00	6.50	2.86
324458	98-139	672.00	673.50	1.50	0.66
324459	98-139	673.50	676.00	2.50	1.10
324460	98-139	676.00	682.50	6.50	2.86
325456	98-141	617.00	621.50	4.50	1.98
325457	98-141	621.50	626.00	4.50	1.98
325458	98-141	626.00	633.00	7.00	3.08
325459	98-141	633.00	638.00	5.00	2.20
325460	98-141	638.00	642.00	4.00	1.76
324480	98-142	382.00	386.00	4.00	1.76
324481	98-142	386.00	391.00	5.00	2.20
324482	98-142	391.00	394.00	3.00	1.32
324483	98-142	394.00	398.00	4.00	1.76
325509	98-144	742.00	746.50	4.50	1.98
325510	98-144	746.50	749.50	3.00	1.32
325511	98-144	749.50	753.50	4.00	1.76
325512	98-144	753.50	757.50	4.00	1.76
325513	98-144	757.50	760.00	2.50	1.10
325514	98-144	760.00	770.00	10.00	4.40
324524	98-145	1041.60	1043.70	2.10	0.92
324525	98-145	1043.70	1047.00	3.30	1.45
324526	98-145	1047.00	1049.10	2.10	0.92
324512	98-145	1049.10	1055.00	5.90	2.60
325553	98-146	620.00	623.50	3.50	1.54
325554	98-146	623.50	625.50	2.00	0.88
325555	98-146	625.50	628.00	2.50	1.10
325556	98-146	628.00	631.00	3.00	1.32
325557	98-146	631.00	635.00	4.00	1.76
325558	98-146	635.00	636.50	1.50	0.66
325559	98-146	636.50	640.00	3.50	1.54
324539	98-148	1081.70	1085.70	4.00	1.76
324540	98-148	1085.70	1089.20	3.50	1.54
324541	98-148	1089.20	1090.90	1.70	0.75
324542	98-148	1090.90	1096.70	5.80	2.55
324543	98-148	1096.70	1099.90	3.20	1.41
324544	98-148	1099.90	1106.00	6.10	2.68
324545	98-148	1106.00	1111.00	5.00	2.20
324615	98-149	561.00	571.00	10.00	4.40
324616	98-149	571.00	572.30	1.30	0.57
324617	98-149	572.30	574.90	2.60	1.14
324618	98-149	574.90	581.00	6.10	2.68
324619	98-149	581.00	585.80	4.80	2.11
324620	98-149	585.80	591.00	5.20	2.29
324573	98-150	465.00	473.00	8.00	3.52
324574	98-150	473.00	477.50	4.50	1.98
324575	98-150	477.50	480.00	2.50	1.10
324576	98-150	480.00	482.50	2.50	1.10
324577	98-150	482.50	485.00	2.50	1.10
324578	98-150	485.00	489.50	4.50	1.98
324593	98-150	969.50	976.00	6.50	2.86
324594	98-150	976.00	978.50	2.50	1.10
324595	98-150	978.50	984.00	5.50	2.42
324596	98-150	984.00	994.50	10.50	4.62
325607	98-151	528.00	537.00	9.00	3.96
325608	98-151	537.00	541.50	4.50	1.98
325609	98-151	541.50	546.00	4.50	1.98
325610	98-151	546.00	551.00	5.00	2.20
325397	98-152	692.50	696.00	3.50	1.54
325398	98-152	696.00	699.50	3.50	1.54
325399	98-152	699.50	704.00	4.50	1.98
325400	98-152	704.00	710.00	6.00	2.64
325675	98-154	1173.30	1177.60	4.30	1.89
325676	98-154	1177.60	1182.60	5.00	2.20
325677	98-154	1182.60	1187.50	4.90	2.16
325678	98-154	1187.50	1192.00	4.50	1.98

325679	98-154	1192.00	1196.50	4.50	1.98
325680	98-154	1196.50	1201.50	5.00	2.20
324748	98-157	1246.50	1257.00	10.50	4.62
324749	98-157	1257.00	1259.00	2.00	0.88
324750	98-157	1259.00	1264.00	5.00	2.20
324801	98-157	1264.00	1266.40	2.40	1.06
324802	98-157	1266.40	1270.80	4.40	1.94
324803	98-157	1270.80	1274.80	4.00	1.76
324804	98-157	1274.80	1277.70	2.90	1.28
324805	98-157	1277.70	1282.00	4.30	1.89
324806	98-157	1282.00	1287.00	5.00	2.20
324807	98-157	1287.00	1290.50	3.50	1.54
324808	98-157	1290.50	1292.70	2.20	0.97
324809	98-157	1292.70	1297.00	4.30	1.89
324810	98-157	1297.00	1299.20	2.20	0.97
324811	98-157	1299.20	1301.50	2.30	1.01
324812	98-157	1301.50	1305.10	3.60	1.58
324813	98-157	1305.10	1310.70	5.60	2.46
324814	98-157	1310.70	1314.00	3.30	1.45
324815	98-157	1314.00	1318.50	4.50	1.98
324816	98-157	1318.50	1323.00	4.50	1.98
324817	98-157	1323.00	1325.00	2.00	0.88
324818	98-157	1325.00	1328.00	3.00	1.32
324819	98-157	1328.00	1333.00	5.00	2.20
324820	98-157	1333.00	1335.00	2.00	0.88
324821	98-157	1335.00	1337.30	2.30	1.01
324822	98-157	1337.30	1339.00	1.70	0.75
324823	98-157	1339.00	1341.30	2.30	1.01
324824	98-157	1341.30	1343.50	2.20	0.97
324825	98-157	1343.50	1348.00	4.50	1.98
324826	98-157	1348.00	1351.00	3.00	1.32
324827	98-157	1351.00	1354.80	3.80	1.67
324828	98-157	1354.80	1357.20	2.40	1.06
324829	98-157	1357.20	1365.50	8.30	3.65
324657	98-158	365.00	371.50	6.50	2.86
324658	98-158	371.50	374.00	2.50	1.10
324659	98-158	374.00	379.00	5.00	2.20
324660	98-158	379.00	385.50	6.50	2.86
324668	98-158	825.00	835.70	10.70	4.71
324669	98-158	835.70	839.50	3.80	1.67
324670	98-158	839.50	843.90	4.40	1.94
324671	98-158	843.90	846.50	2.60	1.14
324672	98-158	846.50	854.00	7.50	3.30
324673	98-158	854.00	858.00	4.00	1.76
324674	98-158	858.00	864.70	6.70	2.95
324675	98-158	864.70	872.00	7.30	3.21
325805	98-161	781.00	785.50	4.50	1.98
325806	98-161	785.50	788.50	3.00	1.32
325807	98-161	788.50	796.00	7.50	3.30
325808	98-161	796.00	801.50	5.50	2.42
324838	98-163	1004.50	1007.80	3.30	1.45
324839	98-163	1007.80	1009.90	2.10	0.92
324840	98-163	1009.90	1012.30	2.40	1.06
324841	98-163	1012.30	1016.70	4.40	1.94
324842	98-163	1016.70	1019.50	2.80	1.23
324843	98-163	1019.50	1023.30	3.80	1.67
324844	98-163	1023.30	1025.80	2.50	1.10
324845	98-163	1025.80	1031.20	5.40	2.38
324920	98-165	1037.40	1039.70	2.30	1.01
324921	98-165	1039.70	1042.00	2.30	1.01
324922	98-165	1042.00	1045.00	3.00	1.32
324682	98-166	345.00	348.50	3.50	1.54
324683	98-166	348.50	353.50	5.00	2.20
324684	98-166	353.50	362.00	8.50	3.74
324685	98-166	362.00	364.00	2.00	0.88

324686	98-166	364.00	369.00	5.00	2.20
324687	98-166	369.00	371.50	2.50	1.10
324688	98-166	371.50	376.20	4.70	2.07
325958	98-166	832.50	834.80	2.30	1.01
325959	98-166	834.80	837.90	3.10	1.36
325960	98-166	837.90	841.00	3.10	1.36
325961	98-166	841.00	846.00	5.00	2.20
325912	98-167	293.00	298.00	5.00	2.20
325913	98-167	298.00	303.50	5.50	2.42
325914	98-167	303.50	309.00	5.50	2.42
325915	98-167	309.00	313.00	4.00	1.76
325916	98-167	313.00	320.00	7.00	3.08
325932	98-167	743.00	748.50	5.50	2.42
325933	98-167	748.50	751.30	2.80	1.23
325934	98-167	751.30	757.00	5.70	2.51
325935	98-167	757.00	763.00	6.00	2.64
324948	98-169	427.50	429.50	2.00	0.88
324949	98-169	429.50	430.20	0.70	0.31
324950	98-169	430.20	440.00	9.80	4.31
324957	98-169	677.30	683.10	5.80	2.55
324958	98-169	683.10	684.90	1.80	0.79
324959	98-169	684.90	690.00	5.10	2.24
324960	98-169	690.00	697.90	7.90	3.48
326026	98-170	525.00	529.00	4.00	1.76
326019	98-170	529.00	532.40	3.40	1.50
326027	98-170	532.40	535.40	3.00	1.32
326020	98-170	535.40	541.00	5.60	2.46
326021	98-170	541.00	544.50	3.50	1.54
325975	98-171	389.50	397.00	7.50	3.30
325976	98-171	397.00	398.20	1.20	0.53
325977	98-171	398.20	405.00	6.80	2.99
325978	98-171	405.00	406.00	1.00	0.44
325979	98-171	406.00	410.00	4.00	1.76
325879	98-171	645.50	651.50	6.00	2.64
325880	98-171	651.50	653.50	2.00	0.88
325881	98-171	653.50	660.50	7.00	3.08
325882	98-171	660.50	666.00	5.50	2.42
325883	98-171	666.00	667.00	1.00	0.44
325884	98-171	667.00	671.00	4.00	1.76
325885	98-171	671.00	676.00	5.00	2.20
325886	98-171	676.00	680.00	4.00	1.76
326257	98-172	676.00	681.20	5.20	2.29
326266	98-172	681.20	685.00	3.80	1.67
326267	98-172	685.00	690.00	5.00	2.20
326268	98-172	690.00	695.00	5.00	2.20
326269	98-172	695.00	702.00	7.00	3.08
326270	98-172	702.00	703.50	1.50	0.66
326272	98-172	703.50	705.50	2.00	0.88
326072	98-173	365.00	367.50	2.50	1.10
326073	98-173	367.50	369.00	1.50	0.66
326074	98-173	369.00	372.75	3.75	1.65
326075	98-173	372.75	378.00	5.25	2.31
326076	98-173	378.00	386.00	8.00	3.52
326094	98-173	797.00	802.00	5.00	2.20
326095	98-173	802.00	805.50	3.50	1.54
326096	98-173	805.50	812.00	6.50	2.86
326097	98-173	812.00	821.00	9.00	3.96
326206	98-174	583.50	589.00	5.50	2.42
326207	98-174	589.00	593.50	4.50	1.98
326208	98-174	593.50	598.50	5.00	2.20
326209	98-174	598.50	603.00	4.50	1.98
326210	98-174	603.00	607.50	4.50	1.98
326211	98-174	607.50	612.50	5.00	2.20
326212	98-174	612.50	618.00	5.50	2.42
326213	98-174	618.00	623.00	5.00	2.20

326103	98-176	535.00	542.00	7.00	3.08
326104	98-176	542.00	544.00	2.00	0.88
326105	98-176	544.00	545.60	1.60	0.70
326106	98-176	545.60	549.00	3.40	1.50
totals	458			2007	883

Lakefield Research

Composite 4

Lakefield Research Limited
Box 4300, 185 Concession St.
Lakefield, ON, Canada K0L 2H0
Telephone: (705) 652-2000
Direct Line: 705-652-2042
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FAX

Date:	March 16, 1999	**Page(s):**	2 (including cover sheet)
To:	Peter MacPhail	**Fax:**	604-640-5385
Company:	Teck Corporation	**Telephone:**	
From:	Keith Sarbutt		
Re:	5241 - Pogo project		

Sample Preparation

1. **Quarter Core:**

- Crush each sample to –3/4 inch.
- Riffle out indicated weight and store.
- Combine into the 5 indicated composites.

For each composite:

(1) Riffle out 5 kg → Abrasion Index
(2) Crush remainer to –1/2 inch → 10 kg → Rod Mill Index
(3) Crush remainer to –6 mesh → Ball Mill Index

All rejects, screen fractions, etc., to be kept, clearly labelled, etc., and stored.

Regards

K.W. Sarbutt
Manager – Mineral Processing

KWS:bjs
Enclosure

remove and store.

Quarter Core Compositing - 1998 Core

Zone Composite	Sample-ID	Wt. At LR Kg	Interval Comp ~~-1/2 inch~~ -3/4 inch Kg	Zone Comp - 1/2 inch Kg	Assays Au (oz/t)	As(%)
L1-C-north	98-089-1	3.3		3.3	1.757	1.59
	98-097-1	4.9		4.9	0.128	0.00
	98-105-1	3.6		3.6	0.111	0.37
	98-109-1	9.4	4	5.4	0.576	0.15
	98-118-1	4.7		4.7	0.368	0.47
	98-119-1	6.4	4	2.4	0.128	0.04
	98-124-1	3.7		3.7	0.623	0.79
	98-133-1	4.3		4.3	0.232	0.11
	98-146-1	5.7	4	1.7	1.238	1.21
	98-151-1	6	4	2	0.356	0.44
	Total			36	0.502	0.45
L1-C-south	98-090-1	5.8	4	1.8	0.313	0.21
	98-103-1	4.6		4.6	0.334	0.02
	98-104-1	4.1		4.1	0.221	0.09
	98-107-1	4.4		4.4	0.176	0.44
	98-113-1	5.4	4	1.4	0.394	0.15
	98-116-1	4		4	0.293	0.11
	98-141-1	5.6	4	1.6	1.459	1.06
	98-149-1	5.1	4	1.1	0.253	0.01
	98-152-1	3.3		3.3	0.257	0.10
	98-170-1	2.5		2.5	0.541	0.93
	98-174-1	10.4	4	6.4	0.333	0.05
	Total			35.2	0.354	0.23
L1-C-east	98-092-1	7	4	3	1.368	0.93
	98-098-1	7	4	3	1.246	0.72
	98-101-1	5.1	4	1.1	0.661	0.26
	98-102-1	5.2	4	1.2	1.003	0.22
	98-139-1	3.9		3.9	0.372	0.71
	98-142-1	5.7	4	1.7	1.279	0.25
	98-150-1	3.8		3.8	1.076	1.08
	98-158-1	4.4		4.4	0.484	0.79
	98-166-1	8.4	4	4.4	0.300	0.38
	98-167-1	5.8	4	1.8	0.521	1.27
	98-171-1	3.7		3.7	0.171	0.92
	Total			32	0.703	0.74
L1-C-central	98-084-1	9.7	4	5.7	0.303	1.07
	98-088-1	8.9	4	4.9	0.513	0.41
	98-129-1	6	4	2	0.323	0.24
	98-138-1	5.8	4	1.8	0.203	0.36
	98-148-1	7.4	4	3.4	0.264	0.45
	98-154-1	8	4	4	0.259	0.41
	98-157-1	32.6	4	28.6	0.651	0.31
	98-163-1	6	4	2	0.173	0.06
	98-172-1	8.7	4	4.7	0.482	0.58
	Total			57.1	0.498	0.42
L2-C-all	98-087-2	3.9		3.9	0.583	4.00
	98-091-2	5	4	1	0.196	0.04
	98-098-2	6	4	2	1.462	1.63
	98-102-2	7.8	4	3.8	0.771	0.99
	98-158-2	8.9	4	4.9	0.577	0.71
	98-171-2	8.4	4	4.4	0.286	0.28
	Total			20	0.621	1.37

FROM: LAKEFIELD RESEARCH FAX NO.: 7056525213 06-08-00 05:01P P.04

Lakefield Research

Sample Receipt

LIMS #

Project # 5241

Date 02/25/1999 Receipt No. LR9900558 Initials D.P

Composite 4.

Company NAC LINE/BUSH
Address 3000 W. INTL AIRPORT RD
ANCHORAGE U.S.A.

Postal/Zip 99502

Job Description

Carrier PEACEBRIDGE Payment Type PREPAID
Waybill # 0670678554

Samples 11 BAGS

Shipping Weight(kg) 311.6 Actual Weight(kg) 311.6

Sample Prep. Required

Attention KEITH SARBUTT

Crush
Pulverize
None

Radioactive N

Listing/ Description N/A

Department PROJECT WORK

905-672-2740

U.S. PORT OF EXIT / BUREAU DE SORTIE DES É.U.

MANIFESTED FROM PORT OF / MANIFESTE DU BUREAU DE: TORONTO 497

TO PORT OF / AU BUREAU DE: TORONTO 497

CARRIER CODE / CODE DU TRANSP.: 8065

CARGO CONTROL NO. / N° DE CONTRÔLE DE FRET: 0670678554

CONSIGNEE NAME AND ADDRESS / NOM ET ADRESSE DU CONSIGNATAIRE:
Lakefield Research Ltd.
185 Concession Street
Lakefield, Ontario

CARRIER CODE / CODE DU TRANSP.: 012

PREVIOUS CARGO CONTROL NO. / N° DE CONTRÔLE DE FRET ANTÉRIEUR: 88162605

SHIPPER NAME AND ADDRESS / NOM ET ADRESSE DE L'EXPÉDITEUR:
Nac Line/Bush
3000 W. Intl Airport Rd.
ANCHORAGE, United States of America 99503

FOREIGN POINT OF LADING / POINT D'EMBARQUEMENT: ANCHORAGE INTERNATIONAL, Uni

LOCATION OF GOODS / EMPLACEMENT DES MARCHANDISES: 1G PBB warehouse

NO. PKGS / NOMBRE DE COLIS	DESCRIPTION OF GOODS / DESCRIPTION DE LA MARCHANDISE	MARQUES & NOS. / MARKS & NOS.	WEIGHT / POIDS
		K	L
11	ORE SAMPLES	311.6	687.0

BRANCH / SUCC.	CLIENT NO. / N° DE CLIENT	DATE (mm dd yy)	AGENT
067	8062	02 22 99	None (CA

H.A.W.B. / H.O.B.L. N° / L.T.G. N°	VALUE / VALEUR	CARRIER / TRANSPORTEUR
012-88162605		NW

OB/L - AWB NO. / CM - LTA N°: Joa

CARTAGE BY / TRANSPORT PAR: P.B.B. Delivery Service

PREPAID PORT PAYÉ / COLLECT PORT DU: C

FREIGHT CHARGES / FRAIS DE FRET: COLLECT PORT DU / P PREPAID PORT PAYÉ

VESSEL / VOYAGE / NAVIRE / VOYAGE

QTY SHOWN ON MANIFEST / QTÉ INDIQUÉE SUR LE MANIFESTE	QTY CLEARED UNDER THIS ENTRY / QTÉ DÉDOUANÉE SOUS CETTE DÉCLARATION	CUSTOMS CLEARANCE BY / DÉDOUANEMENT PAR
11	11	PBB Global Logistics

IMPORTANT:
Note carefully the following provisions, including conditions on the reverse hereof, which provisions and conditions limit and exclude the carrier's liability to $2.00 (Cdn.) per pound, $4.41 (Cdn.) per kilogram, unless a higher value is declared hereon. All of which are hereby accepted by the shipper, consignee and carrier.

IMPORTANT:
Veuillez noter les dispositions suivantes ainsi que des conditions qui se trouvent au verso, limitant la responsabilité du transporteur à $ 2.00 (CAN)/livre ou $4.41 (CAN)/kg, à moins qu'une valeur supérieure ne soit déclarée sur la présente. Ces conditions sont acceptées par l'expéditeur, le consignataire et le transporteur.

ATTENTION INLAND / LOCAL CARRIER:
If delivery cannot be made within 24 hours after notification that shipment is released, the office must be notified immediately. Failure to comply with above could result in storage/demurrage being assessed against your company. Acceptance of this delivery order will constitute agreement to the above terms and conditions.

AVIS AUX TRANSPORTEURS ROUTIERS / LOCAUX:
Notre bureau doit immédiatement être avisé lorsqu'un envoi ne peut être effectué dans les 24 heures suivant la mainlevée. Si cette condition n'est pas remplie, des indemnités d'entreposage/ de surestarie pourraient être imposées à votre entreprise. L'acceptation du présent avis de livraison confirme l'accord des modalités susmentionnées.

DELIVER TO / EXPÉDIER À

*** THIS IS YOUR INVOICE ***

Lakefield Research
185 Concession Street
LAKEFIELD On AT:Keith Sargutt

CHARGES / FRAIS	Charge	GST
318 HANDLING & FORWARD	25.00	.00
326 TERMINAL FEES	27.50	.00
332 PBB DELIVERY SERVI	99.27	.00
347 L. L. AND E. & O.	6.00	.00
Subtotal	157.77	.00

Bill To:
Lakefield Research Div Falconb
Lakefield

Page 1 of 1 Org Inv #:118431784 Cargo #:8065067067855 4

CHARGE COMMENCES AT 9:00 AM ON / FRAIS D'ENTREPOSAGE COMMENCENT À CE JOUR: 02 25 99

ALL CHARGES FOR THIS SHIPMENT GUARANTEED BY: / TOUS LES FRAIS DE CETTE EXPÉDITION SONT GARANTIS PAR

DATE / TIME / HEURE

SIGNATURE

TOTAL $157.77

TERMS: CASH - PLEASE REMIT PROMPTLY
CONDITIONS: PAIEMENT COMPTANT - VEUILLEZ PAYEZ RAPIDEMENT

NOTICE OF CLAIM:
Unless notice be sent for loss, damage or delay in any goods carried under this bill of lading unless notice thereof setting out particulars of the origin, destination and date of shipment of the goods and the approximate amount claimed in respect of such loss, damage or delay is given in writing to the originating carrier or the delivering carrier within sixty (60) days after delivery of the goods, or, in the case of failure to make delivery, within nine (9) months from the date of shipment, (b) The total compensation of the claim must be filed within nine (9) months from the date of shipment claimed with a view of the total freight bill.

AVIS DE RÉCLAMATION:
A moins qu'un avis ait été remis de pertes, de dommages ou de retards causés aux marchandises transportées, qui sont décrites au connaissement, qui indique les noms des expéditeurs / destinataires, les dates d'expédition et le montant approximatif réclamé en réparation de la perte, des dommages ou du retard, au bureau du transporteur de destination dans les soixante (60) jours suivant la date de la livraison des marchandises, ou dans le cas de non-livraison, dans un délai de neuf (9) mois suivant la date de l'expédition. (b) La présentation de la réclamation doit accompagnée d'une preuve du paiement des frais du transport dans un délai de neuf (9) mois suivant la date d'expédition.

CARTAGE TRANSPORT

SPECIAL AGREEMENT SEE CONDITION 2 ON REVERSE ACCORD SPECIAL VOIR CONDITION

Composite 4

TECK RESOURCES, INC.
3520 International Street
Fairbanks, Alaska 99701
phone (907) 455-8325
fax (907) 455-8326

FAX COVER PAGE

To:	Keith Sarbutt, Lakefield R.	Fax: 705-652-6365	
From:	Jack DiMarchi	Date:	Feb 18,1999
Re:	Pogo Sample Shipment	Pages:	1 (including cover pg.)
CC:	Peter MacPhail – Teck Vcr		

Keith,

The shipment of Pogo core samples left Fairbanks yesterday on Northern Air Cargo – Airway Bill 90002220, enroute to Toronto, arriving on Northwest Airlines in 3 to 5 days. They will call you on arrival. The shipment consists of 11 bags with a total weight of 687 pounds. Peter MacPhail is the contact person at Teck-Vancouver with regard to the processing protocol for these samples.

PC | KWS | LC

Lakefield Research

Sample Receipt

LIMS # Project # 5241

Date 01/19/98 Receipt No. LR9800112 Initials MG

Company WGM INC
Address MINING AND GEOLOGICAL CONSULTANTS
P.O. BOX 100059
ANCHORAGE, ALASKA
Postal/Zip 99510

Job Description

Carrier LYNDEN TRANSPORT Payment Type PREPAID
Waybill # 434766

Samples 1 SKID

Shipping Weight(kg) 728.6 Actual Weight(kg) 728.6

Sample Prep. Required

Attention KEITH SARBUTT Crush
Pulverize
Radioactive N None

Listing/
Description

Department PROJECT WORK

FROM: LAKEFIELD RESEARCH FAX NO.: 7056525213 06-08-00 03:30P P.04

20 - 53016 HIGHWAY #60
SPRUCE GROVE, AB T7X 3B7
(403) 960 - 94

980011

LYNDEN TRANSPORT (LTIA)
(206) 575-6575 • P.O. Box 3725 • SEATTLE, WA 98124

PRO NUMBER	DATE RECEIVED	PRO NUMBER
434766 -FBK SR	12-30-97	434766

CONSIGNEE
LAKEFIELD RESEARCH
1 CONCESSION ST
LAKEFIELD, ON K0L2H0
705-652-2200

SHIPPER
UGM INC
FAIRBANKS, AK 99701

TM	TO	DEST	EXC. CODE	C/L CODE	C/L PRO	C/L DATE	C/L AMT	UNIT #	POS
1	EDM	EDM						1880	13

PIECES	HM	DESCRIPTION AND MARKS	WEIGHT	RATE	CHARGES
		PO 42288			
		BL 133130			
1		PLT BX GEOLOGICAL SAMPLES. NO COMMERCIAL VALUE.	1603		
		AS WEIGHT	2000		
		O/B CHARGES - EDM TO DEST			
		"RATED ORIGIN TO DESTINATION"			
		BYD EDM VIA MULM			
		ATTN: KEITH SARBUTT			
		"THANK YOU FOR CHOOSING LYNDEN"			
1		TOTAL PREPAID	1603		

LYNDEN TRANSPORT
A FIT FOR NEW COMPANY

CUST: X

TO: ATTN: .....
UGM INC
B L STREET
B 100059
ANCHORAGE, AK 99510

PRINT CUST. NAME

DEL DATE:

DEL DRIVER:

NC.14	RTE	010098 1450 BR1 01.05.98	UNLOAD	PCS	LOADER	UNIT	POS	PCS

Described shipments is handled in accordance with the terms and conditions of the bill of lading in effect on the date the above carrier received this shipment.

CUSTOMER COPY - 2 PAGE 1 OF 1

Received the above described property in good condition except as noted above.

ADM 30 - 3 PT (6/96) 20004

W G M INC

MINING AND GEOLOGICAL CONSULTANTS
P.O. BOX 100059 Anchorage, ALASKA 99510

Telecopier: BROTHER 1450mc (unattended) Facsimile No. 907-279-1629

To: Steven Reilly

Date: December 30, 1997
Project: 777

From: Tom Corbett, WGM
Subject: Lynden PRO No. 434766 - Geological Sample Shipment
Telecopier No.: (907) 452-7292
Operator: TJC
No. Pages: 1 + cover

*IF ANY QUESTIONS OR PROBLEMS PLEASE CALL 907-276-5004

Please find attached a Bill of Lading for transporting one pallet box of geological samples to Lakefield Research in Ontario, Canada. I understand the shipment should clear customs at the border. Please reference WGM Inc. P.O. No. 42288 for billing purposes. If there is a problem with the shipment clearing customs at the border, it may be shipped in bond to the same address in care of Peace Bridge Customs Brokers. I understand transit time is approximately two to three weeks. Please call me if you have any questions, or problems arise.

Best Regards
Tom Corbett
Tom Corbett
WGM Inc.

LYNDEN TRANSPORT PRO NUMBER
FBK
434766-2

Mullen Trucking
ALDERSYDE OF ALBERTA LTD.

FAX (403) 652-4132
Canada Wide 1-800-661-1469 / U.S. 1-800-661-9152

BILL OF LADING

NOT NEGOTIABLE

Trip No

At (Point of Origin) Date

Consignor (Or Agent) Consignor's No.

Address

Received at the point of origin on the date specified, from the consignor mentioned herein, the property herein described in apparent good order except as noted (contents and conditions of contents of package unknown) marked consigned and destined as indicated below which the carrier agrees to carry and to deliver to the consignee at the said destination, if on its own authorized route or otherwise to cause to be carried by another carrier on the route to said destination, subject to the rates and classification in effect on the date of shipment

It is mutually agreed, as to each carrier of all or any of the goods over all or any portion of the route to destination, and as to each party of any time interested in all or any of the goods, that every service to be performed here under shall be subject to all the conditions not prohibited by law whether printed or written, including conditions which are hereby agreed by the consignor and accepted for himself and his assigns

Consignee (Name and Address)

Destination Route

Number and Type of Packages	Particulars of the Goods, Marks and Exceptions	Weight	Rate	Amount

FREIGHT CHARGES

☐ Collect ☐ Prepaid

Freight charges will be collect unless marked prepaid

C.O.D. SHIPMENTS

Amount $

Collection charge $

☐ Collect ☐ Prepaid TOTAL $

If at consignor's risk write or stamp here

Did we deliver on time?
PLEASE LET US KNOW.
CALL MANAGER OF CUSTOMER SERVICE: 1-800-661-1469 Canada
1-800-661-9152 U.S.

Special agreement between consignor and carrier, advise here

DECLARED VALUATION $
Maximum liability of $2.00 per pound unless declared valuation states otherwise.

NOTICE OF CLAIM

(a) No carrier is liable for loss, damage or delay to any goods under the Bill of Lading unless notice thereof setting out particulars of the origin, destination and date of shipment of the goods and the estimated amount claimed in respect of such loss, damage or delay is given in writing to the originating carrier or the delivering carrier within sixty (60) days after the delivery of the goods or, in the case of failure to make delivery, within nine (9) months from the date of shipment.

(b) The final statement of the claim must be filed within nine (9) months from the date of shipment together with a copy of the paid freight bill

Note carefully conditions hereof which are hereby accepted.

Consignor	Carrier	Consignee
Per	Print Name	Print Name

WHITE - BILLING DEPARTMENT PINK - DOCK GOLDEN ROD - CUSTOMER

Uniform Straight Bill of Lading

LYNDEN TRANSPORT
THE ALL MODE CARRIER
(LTIA)

SHIPPER'S COPY

133130

FREIGHT BILL PRO NUMBER
LYNDEN TRANSPORT PRO NUMBER
PBK
434766-2

TO:

Consignee LAKEFIELD RESEARCH

On Collect on Delivery shipments, the letters "C.O.D." must appear before Consignee's name.

Street 185 CONCESSION ST

City & State LAKEFIELD, ONTARIO Zip K0L 2H0

ATTN: KEITH SARBUTT TEL (705) 652-2200

TRAILER

FOR PAYMENT, SEND FREIGHT BILL TO:

Name WGM INC

Street BOX 100059

City & State ANCHORAGE, AK Zip 99510

TEL NO. (907) 276-5004

FROM:

Shipper WGM INC EX: CHEMEX LABS

Street 1060 BUSH ST.

City & State FAIRBANKS, AK Zip 99709

(907) 452-2188

BOOKING #

If charges are to be prepaid write or stamp here, "To Be Prepaid."

TO BE PREPAID

NO. SHIPPING UNITS	HM	Description of Articles, Special Marks and Exceptions and Proper Shipping Name for Hazardous Materials (Hazardous Class and UN/NA Number)	WEIGHT (SUBJECT TO CORR.)	RATE	CHARGES
1		PALLET BOX CONTAINING GEOLOGICAL	2000		
		SAMPLES - NO COMMERCIAL VALUE	1603		
		REFERENCE WGM P.O. No. 42288			
		Yes. 1 of 1			

REMIT C.O.D. TO:
ADDRESS

C.O.D. AMT. $

☐ ACCEPT CASH, CERTIFIED CHECK OR MONEY ORDER
☐ ACCEPT COMPANY CHECK

C.O.D. FEE

PREPAID ☐ $
COLLECT ☐

NOTE: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

Declared Value: $ per
Actual Value: $ per

Unless agreed to in advance between LTIA and beneficial owner, carrier's liability will be limited to the lesser of $20.00 per pound or $200,000.00 per shipment.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

RECEIVED, subject to the classifications, tariffs, rules or agreements in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own routes, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route or destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.
The carrier certifies that the commodities in this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.

SHIPPER
WGM Inc.
PER
Tom Corbett DATE 12-30-97

CARRIER
PER DATE

* Mark with "X" to designate Hazardous Material as defined in the Department of Transportation Regulations Governing Transportation of Hazardous Materials. The use of this column is an optional method of designating hazardous materials on bills of lading per Section 172.201 and 172.202(b) of the regulations governing the transportation of such materials.

LIMS # Project # -

Date 03/12/98 Receipt No. LR9800670 Initials MG

Company TAIGA VENTURES
Address 2700 S. CUSHMAN
FAIRBANKS, ALASKA

Postal/Zip 99701

Job Description

Carrier PEACEBRIDGE
Waybill # 006-53968014/0670448460

Payment Type COLLECT

Samples 24 PAILS

Shipping Weight(kg) 242.2

Actual Weight(kg) 242.2

Sample Prep. Required

Attention KEITH SARBUTT

Crush
Pulverize
None

Radioactive N

Listing/
Description

Department PROJECT WORK