

Maxxam Job #: A331738
Report Date: 2003/09/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK MINE
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (LIQUID)

Maxxam ID		A82888	A82895		A82897	A82900		
Sampling Date		2003/08/20	2003/08/20		2003/08/19	2003/08/19		
	Units	TP02-81	TP02-83	QA Batch	BGC03-12	BGC03-14	DL	QA Batch
Dissolved Manganese (Mn)	mg/L	0.951	4.54	509929	0.096	ND	0.002	509929
Total Manganese (Mn)	mg/L	1.11	5.31	510584	0.141	0.049	0.002	510584
Dissolved Molybdenum (Mo)	mg/L	ND	ND	509929	0.007	0.082	0.006	509929
Total Molybdenum (Mo)	mg/L	ND	ND	510584	0.011	0.081	0.006	510584
Dissolved Nickel (Ni)	mg/L	0.02	0.10	509929	ND	ND	0.01	509929
Total Nickel (Ni)	mg/L	0.04	0.12	510584	ND	ND	0.01	510584
Dissolved Phosphorus Total (P)	mg/L	ND	ND	509929	ND	ND	0.04	509929
Total Phosphorus Total (P)	mg/L	0.08	ND	510584	ND	ND	0.04	510584
Dissolved Potassium (K)	mg/L	6	5	509929	97.8	118	1	509929
Total Potassium (K)	mg/L	7	6	510584	106	122	1	510584
Dissolved Selenium (Se)	mg/L	ND	ND	509929	ND	ND	0.33	509929
Total Selenium (Se)	mg/L	ND	ND	510584	ND	ND	0.033	510584
Dissolved Silicon (Si)	mg/L	2.85	2.54	509929	0.24	0.56	0.02	509929
Total Silicon (Si)	mg/L	5.8	5.1	510584	0.5	0.7	0.2	510584
Dissolved Silver (Ag)	mg/L	ND	ND	509929	ND	ND	0.007	509929
Total Silver (Ag)	mg/L	ND	ND	510584	ND	ND	0.007	510584
Dissolved Sodium (Na)	mg/L	7.94	5.73	509929	76.2	95.4	0.09	509929
Total Sodium (Na)	mg/L	10.5	7.25	510584	80.1	95.7	0.09	510584
Dissolved Strontium (Sr)	mg/L	0.369	0.494	509929	2.03	12.1	0.003	509929
Total Strontium (Sr)	mg/L	0.388	0.580	510584	2.13	12.0	0.003	510584
Dissolved Sulfur (S)	mg/L	752	1070	509929	590	1010	0.065	509929
Total Sulfur (S)	mg/L	815	1200	510584	647	312	0.065	510584
Dissolved Thallium (Tl)	mg/L	ND	0.05	509929	ND	0.05	0.05	509929
Total Thallium (Tl)	mg/L	ND	0.05	549666	ND	ND	0.05	510584
Dissolved Tin (Sn)	mg/L	ND	ND	509929	ND	ND	0.018	509929
Total Tin (Sn)	mg/L	ND	0.023	510584	ND	ND	0.018	510584
Dissolved Titanium (Ti)	mg/L	ND	ND	509929	ND	ND	0.003	509929
Total Titanium (Ti)	mg/L	0.009	ND	510584	ND	ND	0.003	510584
Dissolved Tungsten (W)	mg/L	ND	0.20	509929	ND	ND	0.03	509929
Total Tungsten (W)	mg/L	ND	0.26	510584	ND	ND	0.03	510584
Dissolved Vanadium (V)	mg/L	ND	ND	509929	ND	ND	0.003	509929
Total Vanadium (V)	mg/L	0.009	0.004	510584	0.005	ND	0.003	510584
Dissolved Zinc (Zn)	mg/L	11.1	192	509929	0.025	0.013	0.003	509929
ND = Not detected Please check for attached comments								

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ELEMENTS BY ATOMIC SPECTROSCOPY (LIQUID)

Maxxam ID		A82885	A82895		A82897	A82900		
Sampling Date		2003/08/20	2003/08/20		2003/08/19	2003/08/19		
	Units	TP02-81	TF02-83	QA Batch	BGC03-12	BGC03-14	DL	QA Batch

Total Zinc (Zn)	mg/L	14.6	207	510584	0.682	0.499	0.003	510584
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Please check for attached comments

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TOTAL PETROLEUM HYDROCARBONS (LIQUID)

Maxxam ID		A82888	A82895	A82901	A82902	A82903		
Sampling Date		2003/08/20	2003/08/20	2003/08/19	2003/08/19	2003/08/19		
	Units	TP02-81	TP02-83	C SHOP US	C SHOP DS	I F-W SEEP	DI	QA Batch

TPH COMPOUNDS								
Total Petroleum Hydrocarbons(Extractable)	ug/L	ND	ND	ND	ND	ND	70	509269

ND = Not detected
Please check for attached comments

Maxxam ID		A82905	A82906		
Sampling Date		2003/08/19	2003/08/19		
	Units	TP03-373	TP03-387	DI	QA Batch

TPH COMPOUNDS					
Total Petroleum Hydrocarbons(Extractable)	ug/L	1100	ND	70	509269

ND = Not detected
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ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A82850	A82852	A82853	A82854	A82855	A82856		
Sampling Date		2003/08/18	2003/08/15	2003/08/17	2003/08/18	2003/08/18	2003/08/18		
	Units	TP03-386-1	TP03-363-1	TP03-364-1	TP03-376-2	TP03-377-1	TP03-378-1	DL	QA Batch

METALS									
Total Cadmium (Cd)	ug/g	2.0	0.4	ND	ND	0.4	18.8	0.3	509745
Total Lead (Pb)	ug/g	201	76.7	56.5	13.2	74.3	1070	2.5	509745
Total Zinc (Zn)	ug/g	924	414	201	77.7	212	5540	0.3	509745
ND = Not detected Please check for attached comments									

Maxxam ID		A82857	A82858	A82859	A82860		A82861		
Sampling Date		2003/08/18	2003/08/18	2003/08/18	2003/08/19		2003/08/19		
	Units	TP03-378-2	TP03-389-1	TP03-390-1	TP03-391-1	DL	TP03-392-1	DL	QA Batch

METALS									
Total Cadmium (Cd)	ug/g	ND	ND	3.0	18.5	0.3	43.1	0.3	509745
Total Lead (Pb)	ug/g	17.8	ND	393	645	2.5	880	2.5	509745
Total Zinc (Zn)	ug/g	71.7	35.2	1130	6150	0.3	14900	3	509745
ND = Not detected Please check for attached comments									

Maxxam ID		A82862		A82863		A82864	A82865		
Sampling Date		2003/08/19		2003/08/19		2003/08/19	2003/08/18		
	Units	TP03-392-2	DL	TP03-393-1	DL	TP03-393-2	TP03-379-1	DL	QA Batch

METALS									
Total Cadmium (Cd)	ug/g	22.8	0.3	44.0	3	29.4	1.0	0.3	509745
Total Lead (Pb)	ug/g	1260	2.5	880	25	1630	64.2	2.5	509745
Total Zinc (Zn)	ug/g	6580	0.3	15900	3	8590	339	0.3	509745
Please check for attached comments									

Maxxam ID		A82878	A82879	A82880		A82881			
Sampling Date		2003/08/15	2003/08/17	2003/08/17		2003/08/18			
	Units	TP03-362-1	TP03-365-1	TP03-375-1	DL	TP03-376-1	DL	QA Batch	

METALS									
Total Aluminum (Al)	ug/g	13400	4480	14000	4	39600	4	509745	
Total Antimony (Sb)	ug/g	60	62	66	10	91	10	509745	
Total Arsenic (As)	ug/g	24.4	14.9	17.9	4	28.0	4	549785	
Total Barium (Ba)	ug/g	45.5	41.3	46.6	0.1	96.2	0.1	509745	
Please check for attached comments									

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ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A82878	A82879	A82880		A82881		
Sampling Date		2003/08/15	2003/08/17	2003/08/17		2003/08/18		
	Units	TP03-362-1	TP03-365-1	TP03-375-1	DL	TP03-376-1	DL	QA Batch
Total Beryllium (Be)	ug/g	0.7	0.4	0.6	0.1	1.3	0.1	509745
Total Bismuth (Bi)	ug/g	ND	ND	3.2	2.3	ND	2.3	509745
Total Boron (B)	ug/g	49.3	4.0	17.6	0.5	18.9	0.5	509745
Total Cadmium (Cd)	ug/g	0.7	0.3	0.7	0.3	ND	0.3	509745
Total Calcium (Ca)	ug/g	45900	78000	50300	4	25700	4	509745
Total Chromium (Cr)	ug/g	18.6	8.5	17.1	0.5	32.7	0.5	509745
Total Cobalt (Co)	ug/g	13.0	10.0	7.2	0.5	7.8	0.5	509745
Total Copper (Cu)	ug/g	52.8	22.9	22.4	0.4	17.9	0.4	509745
Total Iron (Fe)	ug/g	21900	21700	19700	0.6	27000	0.6	509745
Total Lead (Pb)	ug/g	71.4	29.5	27.3	2.5	20.2	2.5	509745
Total Lithium (Li)	ug/g	72.6	10.9	69.7	2	152	2	509745
Total Magnesium (Mg)	ug/g	46500	57500	50300	3	106000	0.3	509745
Total Manganese (Mn)	ug/g	276	622	298	0.15	238	0.15	509745
Total Molybdenum (Mo)	ug/g	6.4	ND	ND	0.6	ND	0.6	509745
Total Nickel (Ni)	ug/g	32.2	15.2	16.4	1	14.9	1	509745
Total Phosphorus Total (P)	ug/g	430	142	234	4	345	4	509745
Total Potassium (K)	ug/g	3490	466	2060	100	14200	100	509745
Total Selenium (Se)	ug/g	ND	ND	ND	3.3	ND	3.3	509745
Total Silicon (Si)	ug/g	953	631	468	2	549	2	509745
Total Silver (Ag)	ug/g	ND	ND	ND	0.7	ND	0.7	509745
Total Sodium (Na)	ug/g	156	94.9	141	9	401	9	509745
Total Strontium (Sr)	ug/g	42.5	12.3	33.9	0.3	48.1	0.3	509745
Total Sulfur (S)	ug/g	11000	172	594	6.5	759	6.5	509745
Total Thallium (Tl)	ug/g	8	11.4	12.1	5	13.7	5	549785
Total Tin (Sn)	ug/g	ND	ND	ND	1.8	ND	1.8	509745
Total Titanium (Ti)	ug/g	149	111	130	0.3	1200	3	509745
Total Tungsten (W)	ug/g	ND	ND	ND	3	ND	3	509745
Total Vanadium (V)	ug/g	56.2	17.0	33.5	0.3	47.9	0.3	509745
Total Zinc (Zn)	ug/g	192	482	401	0.3	71.4	0.3	509745
ND = Not detected Please check for attached comments								

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A82881		
Sampling Date		2003/08/18		
	Units	TP03-376-1 Dup	DL	QA Batch

METALS				
Total Aluminum (Al)	ug/g	39200	4	509745
Total Antimony (Sb)	ug/g	75	10	509745
Total Barium (Ba)	ug/g	96.2	0.1	509745
Total Beryllium (Be)	ug/g	1.3	0.1	509745
Total Bismuth (Bi)	ug/g	ND	2.3	509745
Total Boron (B)	ug/g	19.1	0.5	509745
Total Cadmium (Cd)	ug/g	ND	0.3	509745
Total Calcium (Ca)	ug/g	25100	4	509745
Total Chromium (Cr)	ug/g	32.1	0.5	509745
Total Cobalt (Co)	ug/g	7.6	0.5	509745
Total Copper (Cu)	ug/g	19.4	0.4	509745
Total Iron (Fe)	ug/g	26700	0.6	509745
Total Lead (Pb)	ug/g	18.2	2.5	509745
Total Lithium (Li)	ug/g	150	2	509745
Total Magnesium (Mg)	ug/g	104000	0.3	509745
Total Manganese (Mn)	ug/g	233	0.15	509745
Total Molybdenum (Mo)	ug/g	ND	0.6	509745
Total Nickel (Ni)	ug/g	14.4	1	509745
Total Phosphorus Total (P)	ug/g	326	4	509745
Total Potassium (K)	ug/g	14100	100	509745
Total Selenium (Se)	ug/g	ND	3.3	509745
Total Silicon (Si)	ug/g	!! 333.097	2	509745
Total Silver (Ag)	ug/g	ND	0.7	509745
Total Sodium (Na)	ug/g	395	9	509745
Total Strontium (Sr)	ug/g	47.6	0.3	509745
Total Sulfur (S)	ug/g	!! 983.949	6.5	509745
Total Tin (Sn)	ug/g	ND	1.8	509745
Total Titanium (Ti)	ug/g	!! 972.095	0.3	509745
Total Tungsten (W)	ug/g	!! 3.25773	3	509745
Total Vanadium (V)	ug/g	47.3	0.3	509745
Total Zinc (Zn)	ug/g	86.2	0.3	509745

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General Comments

Sample A82900-01: Note: Acidity could not be performed on this sample because the initial pH is greater than the endpoint of the titrating endpoint (ie. the sample is basic and alkalinity test is applicable in this case).

ELEMENTS BY ATOMIC SPECTROSCOPY (LIQUID) Comments

Total Metals Analysis of Water by ICP: Elevated duplicate RPD for Zn is due to sample matrix effects and is specific to sample B73079. All other parameters are within acceptable duplicate RPD limits.

Results relate only to the items tested.

Quality Assurance Report

Maxxam Job Number: MA331738

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
508936 IG	QC STANDARD	Total Alkalinity (Total as CaCO ₃)	2003/08/27		98	%	85 - 115
	METHOD BLANK	Total Alkalinity (Total as CaCO ₃)	2003/08/27	ND		mg/L	
	RPD	Total Alkalinity (Total as CaCO ₃)	2003/08/27	1.2		%	20
508937 IG	QC STANDARD	Total pH	2003/08/27		100	%	85 - 115
	RPD	Total pH	2003/08/27	0.4		%	20
509116 IG	QC STANDARD	Sulphide	2003/08/27		100	%	85 - 115
	METHOD BLANK	Sulphide	2003/08/27	ND		mg/L	
	RPD	Sulphide	2003/08/27	NC		%	20
509225 SAC	QC STANDARD	Chloride (Cl)	2003/08/27		100	%	85 - 115
		Sulfates (SO ₄)	2003/08/27		98	%	85 - 115
	SPIKED BLANK	Chloride (Cl)	2003/08/27		101	%	75 - 125
		Sulfates (SO ₄)	2003/08/27		98	%	75 - 125
	METHOD BLANK	Chloride (Cl)	2003/08/27	ND		mg/L	
		Sulfates (SO ₄)	2003/08/27	ND		mg/L	
	RPD	Chloride (Cl)	2003/08/27	1.3		%	20
509269 ANL	SPIKED BLANK	Total Petroleum Hydrocarbons(Extractable)	2003/08/27		95	%	70 - 130
	METHOD BLANK	Total Petroleum Hydrocarbons(Extractable)	2003/08/27	ND		ug/L	
	RPD	Total Petroleum Hydrocarbons(Extractable)	2003/08/27	NC		%	N/A
509415 BA	QC STANDARD	Total Ammonia-N	2003/08/28		111	%	85 - 115
	SPIKED BLANK	Total Ammonia-N	2003/08/28		109	%	75 - 125
	METHOD BLANK	Total Ammonia-N	2003/08/28	ND		mg/L	
509745 ISI	QC STANDARD	Total Aluminum (Al)	2003/08/28		97	%	66 - 133
		Total Antimony (Sb)	2003/08/28		111	%	67 - 133
		Total Barium (Ba)	2003/08/28		100	%	83 - 119
		Total Beryllium (Be)	2003/08/28		98	%	76 - 119
		Total Bismuth (Bi)	2003/08/28		93	%	74 - 122
		Total Boron (B)	2003/08/28		99	%	77 - 121
		Total Cadmium (Cd)	2003/08/28		98	%	75 - 117
		Total Calcium (Ca)	2003/08/28		99	%	90 - 110
		Total Chromium (Cr)	2003/08/28		97	%	90 - 110
		Total Cobalt (Co)	2003/08/28		89	%	77 - 119
		Total Copper (Cu)	2003/08/28		96	%	73 - 120
		Total Iron (Fe)	2003/08/28		104	%	80 - 136
		Total Lead (Pb)	2003/08/28		96	%	76 - 119
		Total Lithium (Li)	2003/08/28		101	%	76 - 123
		Total Magnesium (Mg)	2003/08/28		106	%	93 - 114
		Total Manganese (Mn)	2003/08/28		97	%	85 - 115
		Total Molybdenum (Mo)	2003/08/28		94	%	76 - 120
		Total Nickel (Ni)	2003/08/28		98	%	79 - 118
		Total Phosphorus Total (P)	2003/08/28		100	%	90 - 110
		Total Potassium (K)	2003/08/28		97	%	90 - 110
		Total Selenium (Se)	2003/08/28		101	%	74 - 126
		Total Silicon (Si)	2003/08/28		100	%	90 - 112
		Total Silver (Ag)	2003/08/28		96	%	90 - 109
		Total Sodium (Na)	2003/08/28		103	%	91 - 112
		Total Strontium (Sr)	2003/08/28		99	%	80 - 116
		Total Sulfur (S)	2003/08/28		102	%	90 - 111
		Total Tin (Sn)	2003/08/28		100	%	75 - 121
		Total Titanium (Ti)	2003/08/28		97	%	80 - 116
		Total Tungsten (W)	2003/08/28		98	%	84 - 121
		Total Vanadium (V)	2003/08/28		97	%	90 - 110
		Total Zinc (Zn)	2003/08/28		96	%	80 - 115
	METHOD BLANK	Total Aluminum (Al)	2003/08/28	ND		ug/g	
		Total Antimony (Sb)	2003/08/28	ND		ug/g	

Mississauga: 5540 McAdam Road L4Z 1P1 Telephone(905) 890-2555 FAX(905) 890-0370

Quality Assurance Report (Continued)

Maxxam Job Number: MA331738

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyy/mm/dd	Value	Recovery	Units	QC Limits
509745 ISI	METHOD BLANK	Total Barium (Ba)	2003/08/28	0.4		ug/g	
		Total Beryllium (Be)	2003/08/28	ND		ug/g	
		Total Bismuth (Bi)	2003/08/28	4.7		ug/g	
		Total Boron (B)	2003/08/28	ND		ug/g	
		Total Cadmium (Cd)	2003/08/28	ND		ug/g	
		Total Calcium (Ca)	2003/08/28	ND		ug/g	
		Total Chromium (Cr)	2003/08/28	ND		ug/g	
		Total Cobalt (Co)	2003/08/28	ND		ug/g	
		Total Copper (Cu)	2003/08/28	ND		ug/g	
		Total Iron (Fe)	2003/08/28	1.6		ug/g	
		Total Lead (Pb)	2003/08/28	ND		ug/g	
		Total Lithium (Li)	2003/08/28	ND		ug/g	
		Total Magnesium (Mg)	2003/08/28	1.0		ug/g	
		Total Manganese (Mn)	2003/08/28	ND		ug/g	
		Total Molybdenum (Mo)	2003/08/28	ND		ug/g	
		Total Nickel (Ni)	2003/08/28	ND		ug/g	
		Total Phosphorus Total (P)	2003/08/28	ND		ug/g	
		Total Potassium (K)	2003/08/28	ND		ug/g	
		Total Selenium (Se)	2003/08/28	4.6		ug/g	
		Total Silicon (Si)	2003/08/28	3		ug/g	
		Total Silver (Ag)	2003/08/28	ND		ug/g	
		Total Sodium (Na)	2003/08/28	9		ug/g	
		Total Strontium (Sr)	2003/08/28	ND		ug/g	
		Total Sulfur (S)	2003/08/28	ND		ug/g	
		Total Tin (Sn)	2003/08/28	ND		ug/g	
		Total Titanium (Ti)	2003/08/28	ND		ug/g	
		Total Tungsten (W)	2003/08/28	ND		ug/g	
		Total Vanadium (V)	2003/08/28	0.4		ug/g	
		Total Zinc (Zn)	2003/08/28	0.5		ug/g	
	RPD	Total Aluminum (Al)	2003/08/28	1.2		%	20
		Total Antimony (Sb)	2003/08/28	NC		%	20
		Total Barium (Ba)	2003/08/28	0.02		%	20
		Total Beryllium (Be)	2003/08/28	1.1		%	20
		Total Bismuth (Bi)	2003/08/28	NC		%	20
		Total Boron (B)	2003/08/28	1.1		%	20
		Total Cadmium (Cd)	2003/08/28	NC		%	20
		Total Calcium (Ca)	2003/08/28	2.4		%	20
		Total Chromium (Cr)	2003/08/28	1.8		%	20
		Total Cobalt (Co)	2003/08/28	1.9		%	20
		Total Copper (Cu)	2003/08/28	6.0		%	20
		Total Iron (Fe)	2003/08/28	1		%	20
		Total Lead (Pb)	2003/08/28	NC		%	20
		Total Lithium (Li)	2003/08/28	0.9		%	20
		Total Magnesium (Mg)	2003/08/28	1.9		%	20
		Total Manganese (Mn)	2003/08/28	1.9		%	20
		Total Molybdenum (Mo)	2003/08/28	NC		%	20
		Total Nickel (Ni)	2003/08/28	3.3		%	20
		Total Phosphorus Total (P)	2003/08/28	5.8		%	20
		Total Potassium (K)	2003/08/28	1.1		%	20
		Total Selenium (Se)	2003/08/28	NC		%	20
		Total Silicon (Si)	2003/08/28	NC		%	20
		Total Silver (Ag)	2003/08/28	NC		%	20
		Total Sodium (Na)	2003/08/28	1.5		%	20
		Total Strontium (Sr)	2003/08/28	1		%	20

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Quality Assurance Report (Continued)

Maxxam Job Number: MA331738

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
509745 ISI	RPD	Total Sulfur (S)	2003/08/28	NC		%	20
		Total Tin (Sn)	2003/08/28	NC		%	20
		Total Titanium (Ti)	2003/08/28	NC		%	20
		Total Tungsten (W)	2003/08/28	NC		%	20
		Total Vanadium (V)	2003/08/28	1.2		%	20
		Total Zinc (Zn)	2003/08/28	18.7		%	20
509761 HHT	QC STANDARD	Dissolved Total Dissolved Solids (TDS)	2003/08/28		101	%	85 - 115
	METHOD BLANK	Dissolved Total Dissolved Solids (TDS)	2003/08/28	ND		mg/L	
	RPD	Dissolved Total Dissolved Solids (TDS)	2003/08/28	2.9		%	20
509929 ISI	QC STANDARD	Dissolved Aluminum (Al)	2003/08/29		97	%	66 - 133
		Dissolved Antimony (Sb)	2003/08/29		97	%	67 - 133
		Dissolved Arsenic (As)	2003/08/29		91	%	80 - 126
		Dissolved Barium (Ba)	2003/08/29		101	%	83 - 119
		Dissolved Beryllium (Be)	2003/08/29		98	%	76 - 119
		Dissolved Bismuth (Bi)	2003/08/29		103	%	74 - 122
		Dissolved Boron (B)	2003/08/29		99	%	77 - 121
		Dissolved Cadmium (Cd)	2003/08/29		100	%	75 - 117
		Dissolved Calcium (Ca)	2003/08/29		98	%	90 - 110
		Dissolved Chromium (Cr)	2003/08/29		99	%	90 - 110
		Dissolved Cobalt (Co)	2003/08/29		99	%	77 - 119
		Dissolved Copper (Cu)	2003/08/29		99	%	73 - 120
		Dissolved Iron (Fe)	2003/08/29		104	%	80 - 136
		Dissolved Lead (Pb)	2003/08/29		97	%	76 - 119
		Dissolved Lithium (Li)	2003/08/29		99	%	76 - 123
		Dissolved Magnesium (Mg)	2003/08/29		104	%	93 - 114
		Dissolved Manganese (Mn)	2003/08/29		98	%	85 - 115
		Dissolved Molybdenum (Mo)	2003/08/29		98	%	76 - 120
		Dissolved Nickel (Ni)	2003/08/29		101	%	79 - 118
		Dissolved Phosphorus Total (P)	2003/08/29		101	%	90 - 110
		Dissolved Potassium (K)	2003/08/29		97	%	90 - 110
		Dissolved Selenium (Se)	2003/08/29		100	%	74 - 126
		Dissolved Silicon (Si)	2003/08/29		98	%	90 - 112
		Dissolved Silver (Ag)	2003/08/29		100	%	90 - 109
		Dissolved Sodium (Na)	2003/08/29		100	%	91 - 112
		Dissolved Strontium (Sr)	2003/08/29		99	%	80 - 116
		Dissolved Sulfur (S)	2003/08/29		100	%	90 - 111
		Dissolved Thallium (Tl)	2003/08/29		100	%	68 - 129
		Dissolved Tin (Sn)	2003/08/29		101	%	75 - 121
		Dissolved Titanium (Ti)	2003/08/29		98	%	80 - 116
		Dissolved Tungsten (W)	2003/08/29		94	%	84 - 121
		Dissolved Vanadium (V)	2003/08/29		98	%	90 - 110
		Dissolved Zinc (Zn)	2003/08/29		97	%	80 - 115
	METHOD BLANK	Dissolved Aluminum (Al)	2003/08/29	ND		mg/L	
		Dissolved Antimony (Sb)	2003/08/29	ND		mg/L	
		Dissolved Arsenic (As)	2003/08/29	ND		mg/L	
		Dissolved Barium (Ba)	2003/08/29	ND		mg/L	
		Dissolved Beryllium (Be)	2003/08/29	ND		mg/L	
		Dissolved Bismuth (Bi)	2003/08/29	ND		mg/L	
		Dissolved Boron (B)	2003/08/29	ND		mg/L	
		Dissolved Cadmium (Cd)	2003/08/29	ND		mg/L	
		Dissolved Calcium (Ca)	2003/08/29	ND		mg/L	
		Dissolved Chromium (Cr)	2003/08/29	ND		mg/L	
		Dissolved Cobalt (Co)	2003/08/29	ND		mg/L	
		Dissolved Copper (Cu)	2003/08/29	ND		mg/L	

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Quality Assurance Report (Continued)

Maxxam Job Number: MA331738

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
509929 ISI	METHOD BLANK	Dissolved Iron (Fe)	2003/08/29	ND		mg/L	
		Dissolved Lead (Pb)	2003/08/29	ND		mg/L	
		Dissolved Lithium (Li)	2003/08/29	ND		mg/L	
		Dissolved Magnesium (Mg)	2003/08/29	ND		mg/L	
		Dissolved Manganese (Mn)	2003/08/29	ND		mg/L	
		Dissolved Molybdenum (Mo)	2003/08/29	ND		mg/L	
		Dissolved Nickel (Ni)	2003/08/29	ND		mg/L	
		Dissolved Phosphorus Total (P)	2003/08/29	ND		mg/L	
		Dissolved Potassium (K)	2003/08/29	ND		mg/L	
		Dissolved Selenium (Se)	2003/08/29	ND		mg/L	
		Dissolved Silicon (Si)	2003/08/29	ND		mg/L	
		Dissolved Silver (Ag)	2003/08/29	ND		mg/L	
		Dissolved Sodium (Na)	2003/08/29	ND		mg/L	
		Dissolved Strontium (Sr)	2003/08/29	ND		mg/L	
		Dissolved Sulfur (S)	2003/08/29	ND		mg/L	
		Dissolved Thallium (Tl)	2003/08/29	ND		mg/L	
		Dissolved Tin (Sn)	2003/08/29	ND		mg/L	
		Dissolved Titanium (Ti)	2003/08/29	ND		mg/L	
		Dissolved Tungsten (W)	2003/08/29	ND		mg/L	
		Dissolved Vanadium (V)	2003/08/29	ND		mg/L	
510584 ISI	MATRIX SPIKE	Dissolved Zinc (Zn)	2003/08/29	ND		mg/L	
		Total Aluminum (Al)	2003/09/02		92	%	75 - 125
		Total Antimony (Sb)	2003/09/02		89	%	75 - 125
		Total Arsenic (As)	2003/09/02		99	%	75 - 125
		Total Barium (Ba)	2003/09/02		100	%	75 - 125
		Total Beryllium (Be)	2003/09/02		96	%	75 - 125
		Total Bismuth (Bi)	2003/09/02		93	%	75 - 125
		Total Boron (B)	2003/09/02		81	%	75 - 125
		Total Cadmium (Cd)	2003/09/02		98	%	75 - 125
		Total Chromium (Cr)	2003/09/02		94	%	75 - 125
		Total Cobalt (Co)	2003/09/02		95	%	75 - 125
		Total Copper (Cu)	2003/09/02		99	%	75 - 125
		Total Iron (Fe)	2003/09/02		90	%	75 - 125
		Total Lead (Pb)	2003/09/02		89	%	75 - 125
		Total Lithium (Li)	2003/09/02		110	%	75 - 125
		Total Manganese (Mn)	2003/09/02		92	%	75 - 125
		Total Molybdenum (Mo)	2003/09/02		101	%	75 - 125
		Total Nickel (Ni)	2003/09/02		93	%	75 - 125
		Total Selenium (Se)	2003/09/02		98	%	75 - 125
		Total Thallium (Tl)	2003/09/02		99	%	75 - 125
		Total Tin (Sn)	2003/09/02		95	%	75 - 125
		Total Titanium (Ti)	2003/09/02		99	%	75 - 125
		Total Vanadium (V)	2003/09/02		97	%	75 - 125
		Total Zinc (Zn)	2003/09/02		99	%	75 - 125
	QC STANDARD	Total Aluminum (Al)	2003/09/02		100	%	66 - 133
		Total Antimony (Sb)	2003/09/02		111	%	67 - 133
		Total Arsenic (As)	2003/09/02		97	%	80 - 126
		Total Barium (Ba)	2003/09/02		99	%	83 - 119
		Total Beryllium (Be)	2003/09/02		100	%	76 - 119
		Total Bismuth (Bi)	2003/09/02		99	%	74 - 122
		Total Boron (B)	2003/09/02		100	%	77 - 121
		Total Cadmium (Cd)	2003/09/02		97	%	75 - 117
		Total Calcium (Ca)	2003/09/02		104	%	90 - 110
		Total Chromium (Cr)	2003/09/02		98	%	90 - 110

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Quality Assurance Report (Continued)

Maxxam Job Number: MA331738

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
510584 ISI	QC STANDARD	Total Cobalt (Co)	2003/09/02		98	%	77 - 119
		Total Copper (Cu)	2003/09/02		99	%	73 - 120
		Total Iron (Fe)	2003/09/02		107	%	80 - 136
		Total Lead (Pb)	2003/09/02		97	%	76 - 119
		Total Lithium (Li)	2003/09/02		101	%	76 - 123
		Total Magnesium (Mg)	2003/09/02		107	%	93 - 114
		Total Manganese (Mn)	2003/09/02		98	%	85 - 115
		Total Molybdenum (Mo)	2003/09/02		97	%	76 - 120
		Total Nickel (Ni)	2003/09/02		97	%	79 - 118
		Total Phosphorus Total (P)	2003/09/02		100	%	90 - 110
		Total Potassium (K)	2003/09/02		99	%	90 - 110
		Total Selenium (Se)	2003/09/02		100	%	74 - 126
		Total Silicon (Si)	2003/09/02		103	%	90 - 112
		Total Silver (Ag)	2003/09/02		99	%	90 - 109
		Total Sodium (Na)	2003/09/02		103	%	91 - 112
		Total Strontium (Sr)	2003/09/02		101	%	80 - 116
		Total Sulfur (S)	2003/09/02		103	%	90 - 111
		Total Thallium (Tl)	2003/09/02		94	%	68 - 129
		Total Tin (Sn)	2003/09/02		101	%	75 - 121
		Total Titanium (Ti)	2003/09/02		101	%	80 - 116
		Total Tungsten (W)	2003/09/02		98	%	84 - 121
		Total Vanadium (V)	2003/09/02		98	%	90 - 110
		Total Zinc (Zn)	2003/09/02		99	%	80 - 115
	SPIKED BLANK	Total Aluminum (Al)	2003/09/02		100	%	76 - 133
		Total Antimony (Sb)	2003/09/02		106	%	67 - 133
		Total Arsenic (As)	2003/09/02		110	%	80 - 126
		Total Barium (Ba)	2003/09/02		107	%	83 - 115
		Total Beryllium (Be)	2003/09/02		103	%	76 - 119
		Total Bismuth (Bi)	2003/09/02		106	%	74 - 122
		Total Boron (B)	2003/09/02		109	%	77 - 121
		Total Cadmium (Cd)	2003/09/02		104	%	75 - 117
		Total Chromium (Cr)	2003/09/02		106	%	75 - 125
		Total Cobalt (Co)	2003/09/02		108	%	77 - 119
	METHOD BLANK	Total Copper (Cu)	2003/09/02		106	%	73 - 120
		Total Iron (Fe)	2003/09/02		116	%	80 - 136
		Total Lead (Pb)	2003/09/02		106	%	76 - 119
		Total Lithium (Li)	2003/09/02		102	%	76 - 123
		Total Manganese (Mn)	2003/09/02		105	%	75 - 125
		Total Molybdenum (Mo)	2003/09/02		109	%	76 - 120
		Total Nickel (Ni)	2003/09/02		105	%	79 - 118
		Total Selenium (Se)	2003/09/02		110	%	74 - 126
		Total Strontium (Sr)	2003/09/02		106	%	80 - 116
		Total Thallium (Tl)	2003/09/02		118	%	68 - 129
		Total Tin (Sn)	2003/09/02		108	%	75 - 121
		Total Titanium (Ti)	2003/09/02		108	%	80 - 116
		Total Vanadium (V)	2003/09/02		106	%	75 - 125
		Total Zinc (Zn)	2003/09/02		106	%	80 - 115
		Total Aluminum (Al)	2003/09/02	ND		mg/L	
		Total Antimony (Sb)	2003/09/02	ND		mg/L	
		Total Arsenic (As)	2003/09/02	ND		mg/L	
		Total Barium (Ba)	2003/09/02	ND		mg/L	
		Total Beryllium (Be)	2003/09/02	ND		mg/L	
		Total Bismuth (Bi)	2003/09/02	ND		mg/L	
		Total Boron (B)	2003/09/02	ND		mg/L	

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Quality Assurance Report (Continued)

Maxxam Job Number: MA331738

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
510584 ISI	METHOD BLANK	Total Cadmium (Cd)	2003/09/02	ND		mg/L	
		Total Calcium (Ca)	2003/09/02	ND		mg/L	
		Total Chromium (Cr)	2003/09/02	ND		mg/L	
		Total Cobalt (Co)	2003/09/02	ND		mg/L	
		Total Copper (Cu)	2003/09/02	ND		mg/L	
		Total Iron (Fe)	2003/09/02	ND		mg/L	
		Total Lead (Pb)	2003/09/02	ND		mg/L	
		Total Lithium (Li)	2003/09/02	ND		mg/L	
		Total Magnesium (Mg)	2003/09/02	0.007		mg/L	
		Total Manganese (Mn)	2003/09/02	ND		mg/L	
		Total Molybdenum (Mo)	2003/09/02	ND		mg/L	
		Total Nickel (Ni)	2003/09/02	ND		mg/L	
		Total Phosphorus Total (P)	2003/09/02	ND		mg/L	
		Total Potassium (K)	2003/09/02	ND		mg/L	
		Total Selenium (Se)	2003/09/02	ND		mg/L	
		Total Silicon (Si)	2003/09/02	ND		mg/L	
		Total Silver (Ag)	2003/09/02	ND		mg/L	
		Total Sodium (Na)	2003/09/02	ND		mg/L	
		Total Strontium (Sr)	2003/09/02	ND		mg/L	
		Total Sulfur (S)	2003/09/02	ND		mg/L	
		Total Thallium (Tl)	2003/09/02	ND		mg/L	
		Total Tin (Sn)	2003/09/02	ND		mg/L	
		Total Titanium (Ti)	2003/09/02	ND		mg/L	
		Total Tungsten (W)	2003/09/02	ND		mg/L	
		Total Vanadium (V)	2003/09/02	ND		mg/L	
	RPD	Total Zinc (Zn)	2003/09/02	ND		mg/L	
		Total Arsenic (As)	2003/09/02	NC		%	20
		Total Beryllium (Be)	2003/09/02	NC		%	20
		Total Calcium (Ca)	2003/09/02	0.4		%	20
		Total Chromium (Cr)	2003/09/02	NC		%	20
		Total Cobalt (Co)	2003/09/02	NC		%	20
		Total Iron (Fe)	2003/09/02	5.2		%	20
		Total Magnesium (Mg)	2003/09/02	0.3		%	20
		Total Manganese (Mn)	2003/09/02	0.5		%	20
		Total Molybdenum (Mo)	2003/09/02	NC		%	20
		Total Nickel (Ni)	2003/09/02	NC		%	20
		Total Selenium (Se)	2003/09/02	NC		%	20
		Total Sodium (Na)	2003/09/02	1.6		%	20
		Total Vanadium (V)	2003/09/02	NC		%	20
		Total Zinc (Zn)	2003/09/02	6.6		%	20
510681 WLI	METHOD BLANK	Acidity as CaCO ₃	2003/09/02	ND		mg/L	
	RPD	Acidity as CaCO ₃	2003/09/02	3.0		%	N/A
549666 ISI	MATRIX SPIKE	Total Arsenic (As)	2003/12/30		111	%	75 - 125
		Total Thallium (Tl)	2003/12/30		111	%	75 - 125
	QC STANDARD	Total Arsenic (As)	2003/12/30		97	%	80 - 126
		Total Thallium (Tl)	2003/12/30		101	%	68 - 129
	SPIKED BLANK	Total Arsenic (As)	2003/12/30		110	%	80 - 126
		Total Thallium (Tl)	2003/12/30		118	%	68 - 129
	METHOD BLANK	Total Arsenic (As)	2003/12/30	ND		mg/L	
		Total Thallium (Tl)	2003/12/30	ND		mg/L	
549785 ISI	QC STANDARD	Total Arsenic (As)	2003/12/30		97	%	80 - 126
		Total Thallium (Tl)	2003/12/30		101	%	68 - 129
	METHOD BLANK	Total Arsenic (As)	2003/12/30	ND		ug/g	
		Total Thallium (Tl)	2003/12/30	ND		ug/g	

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ND = Not detected
N/A = Not Applicable
NC = Non-calculable
RPD = Relative Percent Difference

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Maxxam Job #: A331738
Report Date: 2003/09/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK MINE
Sampler Initials:

RESULTS OF CHEMICAL ANALYSES OF LIQUID

Maxxam ID		A82888	A82895	A82895		A82897		
Sampling Date		2003/08/20	2003/08/20	2003/08/20		2003/08/19		
	Units	TP02-81	TP02-83	TP02-83 Dup	DL	BGC03-12	DL	QA Batch

CONVENTIONALS								
Acidity as CaCO ₃	mg/L	12	231	238	10		10	510681
Total Ammonia-N	mg/L	0.74	ND		0.05	27.9	0.5	509415
Total pH	pH	7.72	7.32		0.01	8.73	0.01	508937
Sulphide	mg/L	ND	ND		0.02	ND	0.02	509116
Dissolved Total Dissolved Solids (TDS)	mg/L					3140	1	509761
Total Alkalinity (Total as CaCO ₃)	mg/L	293	168		1		1	508936
Chloride (Cl)	mg/L	78.1	57.5		0.15	413	3.8	509225
Sulfates (SO ₄)	mg/L	1840	2740		13	1430	13	509225

ND = Not detected
Please check for attached comments

Maxxam ID		A82900		
Sampling Date		2003/08/19		
	Units	BGC03-14	DL	QA Batch

CONVENTIONALS				
Total Ammonia-N	mg/L	14.1	0.5	509415
Total pH	pH	10.1	0.01	508937
Sulphide	mg/L	ND	0.02	509116
Dissolved Total Dissolved Solids (TDS)	mg/L	4510	1	509761
Total Alkalinity (Total as CaCO ₃)	mg/L	87.9	1	508936
Chloride (Cl)	mg/L	1380	3.8	509225
Sulfates (SO ₄)	mg/L	575	13	509225

ND = Not detected
Please check for attached comments

ELEMENTS BY ATOMIC SPECTROSCOPY (LIQUID)

Maxxam ID		A82888	A82895		A82897	A82900		
Sampling Date		2003/08/20	2003/08/20		2003/08/19	2003/08/19		
	Units	TP02-81	TP02-83	QA Batch	BGC03-12	BGC03-14	DL	QA Batch
METALS								
Dissolved Aluminum (Al)	mg/L	ND	ND	509929	ND	ND	0.04	509929
Total Aluminum (Al)	mg/L	1.82	1.14	510584	0.08	0.06	0.04	510584
Dissolved Antimony (Sb)	mg/L	0.5	0.7	509929	0.3	0.1	0.1	509929
Total Antimony (Sb)	mg/L	0.7	0.6	510584	0.4	0.1	0.1	510584
Dissolved Arsenic (As)	mg/L	ND	ND	509929	ND	ND	0.04	509929
Total Arsenic (As)	mg/L	ND	ND	549666	ND	ND	0.04	510584
Dissolved Barium (Ba)	mg/L	0.020	0.040	509929	0.026	0.050	0.001	509929
Total Barium (Ba)	mg/L	0.036	0.031	510584	0.017	0.019	0.001	510584
Dissolved Beryllium (Be)	mg/L	ND	ND	509929	ND	ND	0.001	509929
Total Beryllium (Be)	mg/L	ND	ND	510584	ND	ND	0.001	510584
Dissolved Bismuth (Bi)	mg/L	ND	ND	509929	ND	ND	0.023	509929
Total Bismuth (Bi)	mg/L	ND	ND	510584	ND	ND	0.023	510584
Dissolved Boron (B)	mg/L	0.150	0.161	509929	0.032	0.191	0.005	509929
Total Boron (B)	mg/L	0.149	0.175	510584	0.036	0.175	0.005	510584
Dissolved Cadmium (Cd)	mg/L	ND	0.009	509929	ND	ND	0.003	509929
Total Cadmium (Cd)	mg/L	0.008	0.016	510584	ND	ND	0.003	510584
Dissolved Calcium (Ca)	mg/L	454	514	509929	549	938	0.04	509929
Total Calcium (Ca)	mg/L	523	636	510584	612	1010	0.04	510584
Dissolved Chromium (Cr)	mg/L	ND	ND	509929	ND	ND	0.005	509929
Total Chromium (Cr)	mg/L	ND	ND	510584	ND	ND	0.005	510584
Dissolved Cobalt (Co)	mg/L	0.008	0.070	509929	ND	ND	0.005	509929
Total Cobalt (Co)	mg/L	0.022	0.089	510584	0.010	ND	0.005	510584
Dissolved Copper (Cu)	mg/L	ND	ND	509929	ND	ND	0.004	509929
Total Copper (Cu)	mg/L	0.006	ND	510584	0.038	0.014	0.004	510584
Dissolved Iron (Fe)	mg/L	ND	ND	509929	0.013	ND	0.006	509929
Total Iron (Fe)	mg/L	9.79	8.36	510584	30.4	2.06	0.006	510584
Dissolved Lead (Pb)	mg/L	ND	0.043	509929	ND	ND	0.025	509929
Total Lead (Pb)	mg/L	0.558	0.354	510584	0.741	0.517	0.025	510584
Dissolved Lithium (Li)	mg/L	0.05	0.05	509929	0.06	0.43	0.02	509929
Total Lithium (Li)	mg/L	0.06	0.04	510584	0.06	0.43	0.02	510584
Dissolved Magnesium (Mg)	mg/L	376	453	509929	155	5.53	0.003	509929
Total Magnesium (Mg)	mg/L	408	500	510584	130	14.9	0.003	510584
ND = Not detected Please check for attached comments								

ELEMENTS BY ATOMIC SPECTROSCOPY (LIQUID)

Maxxam ID		A82888	A82895		A82897	A82900		
Sampling Date		2003/08/20	2003/08/20		2003/08/19	2003/08/19		
	Units	TP02-81	TP02-83	QA Batch	BGC03-12	BGC03-14	DL	QA Batch
Dissolved Manganese (Mn)	mg/L	0.951	4.54	509929	0.096	ND	0.002	509929
Total Manganese (Mn)	mg/L	1.11	5.31	510584	0.141	0.049	0.002	510584
Dissolved Molybdenum (Mo)	mg/L	ND	ND	509929	0.007	0.082	0.006	509929
Total Molybdenum (Mo)	mg/L	ND	ND	510584	0.011	0.081	0.006	510584
Dissolved Nickel (Ni)	mg/L	0.02	0.10	509929	ND	ND	0.01	509929
Total Nickel (Ni)	mg/L	0.04	0.12	510584	ND	ND	0.01	510584
Dissolved Phosphorus Total (P)	mg/L	ND	ND	509929	ND	ND	0.04	509929
Total Phosphorus Total (P)	mg/L	0.08	ND	510584	ND	ND	0.04	510584
Dissolved Potassium (K)	mg/L	6	5	509929	97.8	118	1	509929
Total Potassium (K)	mg/L	7	6	510584	106	122	1	510584
Dissolved Selenium (Se)	mg/L	ND	ND	509929	ND	ND	0.33	509929
Total Selenium (Se)	mg/L	ND	ND	510584	ND	ND	0.033	510584
Dissolved Silicon (Si)	mg/L	2.85	2.54	509929	0.24	0.56	0.02	509929
Total Silicon (Si)	mg/L	5.8	5.1	510584	0.5	0.7	0.2	510584
Dissolved Silver (Ag)	mg/L	ND	ND	509929	ND	ND	0.007	509929
Total Silver (Ag)	mg/L	ND	ND	510584	ND	ND	0.007	510584
Dissolved Sodium (Na)	mg/L	7.94	5.73	509929	76.2	95.4	0.09	509929
Total Sodium (Na)	mg/L	10.5	7.25	510584	80.1	95.7	0.09	510584
Dissolved Strontium (Sr)	mg/L	0.369	0.494	509929	2.03	12.1	0.003	509929
Total Strontium (Sr)	mg/L	0.388	0.580	510584	2.13	12.0	0.003	510584
Dissolved Sulfur (S)	mg/L	752	1070	509929	590	1010	0.065	509929
Total Sulfur (S)	mg/L	815	1200	510584	647	312	0.065	510584
Dissolved Thallium (Tl)	mg/L	ND	0.05	509929	ND	0.05	0.05	509929
Total Thallium (Tl)	mg/L	ND	0.05	549666	ND	ND	0.05	510584
Dissolved Tin (Sn)	mg/L	ND	ND	509929	ND	ND	0.018	509929
Total Tin (Sn)	mg/L	ND	0.023	510584	ND	ND	0.018	510584
Dissolved Titanium (Ti)	mg/L	ND	ND	509929	ND	ND	0.003	509929
Total Titanium (Ti)	mg/L	0.009	ND	510584	ND	ND	0.003	510584
Dissolved Tungsten (W)	mg/L	ND	0.20	509929	ND	ND	0.03	509929
Total Tungsten (W)	mg/L	ND	0.26	510584	ND	ND	0.03	510584
Dissolved Vanadium (V)	mg/L	ND	ND	509929	ND	ND	0.003	509929
Total Vanadium (V)	mg/L	0.009	0.004	510584	0.005	ND	0.003	510584
Dissolved Zinc (Zn)	mg/L	11.1	192	509929	0.025	0.013	0.003	509929
ND = Not detected Please check for attached comments								

Maxxam Job #: A331738
Report Date: 2003/09/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK MINE.
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (LIQUID)

Maxxam ID		A82888	A82895		A82897	A82900		
Sampling Date		2003/08/20	2003/08/20		2003/08/19	2003/08/19		
	Units	TP02-81	TP02-83	QA Batch	BGC03-12	BGC03-14	DL	QA Batch

Total Zinc (Zn)	mg/L	14.6	207	510584	0.682	0.499	0.003	510584
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Please check for attached comments

Maxxam Job #: A331738
Report Date: 2003/09/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK MINE
Sampler Initials:

TOTAL PETROLEUM HYDROCARBONS (LIQUID)

Maxxam ID		A82888	A82895	A82901	A82902	A82903		
Sampling Date		2003/08/20	2003/08/20	2003/08/19	2003/08/19	2003/08/19		
	Units	TP02-81	TP02-33	C SHOP US	C SHOP DS	LE-W SFFP	DL	QA Batch

TPH COMPOUNDS								
Total Petroleum Hydrocarbons(Extractable)	ug/L	ND	ND	ND	ND	ND	70	509269

ND = Not detected
Please check for attached comments

Maxxam ID		A82905	A82906		
Sampling Date		2003/08/19	2003/08/19		
	Units	TP03-373	TP03-387	DL	QA Batch

TPH COMPOUNDS					
Total Petroleum Hydrocarbons(Extractable)	ug/L	1100	ND	70	509269

ND = Not detected
Please check for attached comments

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A82850	A82852	A82853	A82854	A82855	A82856		
Sampling Date		2003/08/18	2003/08/15	2003/08/17	2003/08/18	2003/08/18	2003/08/18		
	Units	TP03-386-1	TP03-363-1	TP03-364-1	TP03-376-2	TP03-377-1	TP03-378-1	DI	QA Batch

METALS									
Total Cadmium (Cd)	ug/g	2.0	0.4	ND	ND	0.4	18.8	0.3	509745
Total Lead (Pb)	ug/g	201	76.7	56.5	13.2	74.3	1070	2.5	509745
Total Zinc (Zn)	ug/g	924	414	201	77.7	212	5540	0.3	509745
ND = Not detected Please check for attached comments									

Maxxam ID		A82857	A82858	A82859	A82860		A82861		
Sampling Date		2003/08/18	2003/08/18	2003/08/18	2003/08/19		2003/08/19		
	Units	TP03-378-2	TP03-389-1	TP03-390-1	TP03-391-1	DI	TP03-392-1	DI	QA Batch

METALS									
Total Cadmium (Cd)	ug/g	ND	ND	3.0	18.5	0.3	43.1	0.3	509745
Total Lead (Pb)	ug/g	17.8	ND	393	645	2.5	880	2.5	509745
Total Zinc (Zn)	ug/g	71.7	35.2	1130	6150	0.3	14900	3	509745
ND = Not detected Please check for attached comments									

Maxxam ID		A82862		A82863		A82864	A82865		
Sampling Date		2003/08/19		2003/08/19		2003/08/19	2003/08/18		
	Units	TP03-392-2	DI	TP03-393-1	DI	TP03-393-2	TP03-379-1	DI	QA Batch

METALS									
Total Cadmium (Cd)	ug/g	22.8	0.3	44.0	3	29.4	1.0	0.3	509745
Total Lead (Pb)	ug/g	1260	2.5	880	25	1630	64.2	2.5	509745
Total Zinc (Zn)	ug/g	6580	0.3	15900	3	8590	339	0.3	509745
Please check for attached comments									

Maxxam ID		A82878	A82879	A82880		A82881			
Sampling Date		2003/08/15	2003/08/17	2003/08/17		2003/08/18			
	Units	TP03-362-1	TP03-365-1	TP03-375-1	DI	TP03-376-1	DI	QA Batch	

METALS									
Total Aluminum (Al)	ug/g	13400	4480	14000	4	39600	4		509745
Total Antimony (Sb)	ug/g	60	62	66	10	91	10		509745
Total Arsenic (As)	ug/g	24.4	14.9	17.9	4	28.0	4		549785
Total Barium (Ba)	ug/g	45.5	41.3	46.6	0.1	96.2	0.1		509745
Please check for attached comments									

Maxxam Job #: A331738
Report Date: 2003/09/08

Gartner Lee Ltd
Client Project #: 23635
Site Reference: NANISIVIK MINE
Sampler Initials:

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A82878	A82879	A82880		A82881		
Sampling Date		2003/08/15	2003/08/17	2003/08/17		2003/08/18		
	Units	TP03-362-1	TP03-365-1	TP03-375-1	DL	TP03-376-1	DL	QA Batch
Total Beryllium (Be)	ug/g	0.7	0.4	0.6	0.1	1.3	0.1	509745
Total Bismuth (Bi)	ug/g	ND	ND	3.2	2.3	ND	2.3	509745
Total Boron (B)	ug/g	49.3	4.0	17.6	0.5	18.9	0.5	509745
Total Cadmium (Cd)	ug/g	0.7	0.3	0.7	0.3	ND	0.3	509745
Total Calcium (Ca)	ug/g	45900	78000	50300	4	25700	4	509745
Total Chromium (Cr)	ug/g	18.6	8.5	17.1	0.5	32.7	0.5	509745
Total Cobalt (Co)	ug/g	13.0	10.0	7.2	0.5	7.8	0.5	509745
Total Copper (Cu)	ug/g	52.8	22.9	22.4	0.4	17.9	0.4	509745
Total Iron (Fe)	ug/g	21900	21700	19700	0.6	27000	0.6	509745
Total Lead (Pb)	ug/g	71.4	29.5	27.3	2.5	20.2	2.5	509745
Total Lithium (Li)	ug/g	72.6	10.9	69.7	2	152	2	509745
Total Magnesium (Mg)	ug/g	46500	57500	50300	3	106000	0.3	509745
Total Manganese (Mn)	ug/g	276	622	298	0.15	238	0.15	509745
Total Molybdenum (Mo)	ug/g	6.4	ND	ND	0.6	ND	0.6	509745
Total Nickel (Ni)	ug/g	32.2	15.2	16.4	1	14.9	1	509745
Total Phosphorus Total (P)	ug/g	430	142	234	4	345	4	509745
Total Potassium (K)	ug/g	3490	466	2060	100	14200	100	509745
Total Selenium (Se)	ug/g	ND	ND	ND	3.3	ND	3.3	509745
Total Silicon (Si)	ug/g	953	631	468	2	549	2	509745
Total Silver (Ag)	ug/g	ND	ND	ND	0.7	ND	0.7	509745
Total Sodium (Na)	ug/g	156	94.9	141	9	401	9	509745
Total Strontium (Sr)	ug/g	42.5	12.3	33.9	0.3	48.1	0.3	509745
Total Sulfur (S)	ug/g	11000	172	594	6.5	759	6.5	509745
Total Thallium (Tl)	ug/g	8	11.4	12.1	5	13.7	5	549785
Total Tin (Sn)	ug/g	ND	ND	ND	1.8	ND	1.8	509745
Total Titanium (Ti)	ug/g	149	111	130	0.3	1200	3	509745
Total Tungsten (W)	ug/g	ND	ND	ND	3	ND	3	509745
Total Vanadium (V)	ug/g	56.2	17.0	33.5	0.3	47.9	0.3	509745
Total Zinc (Zn)	ug/g	192	482	401	0.3	71.4	0.3	509745
ND = Not detected Please check for attached comments								

ELEMENTS BY ATOMIC SPECTROSCOPY (SOLID)

Maxxam ID		A82881		
Sampling Date		2003/08/18		
	Units	TP03-376-1 Dup	DL	QA Batch

METALS				
Total Aluminum (Al)	ug/g	39200	4	509745
Total Antimony (Sb)	ug/g	75	10	509745
Total Barium (Ba)	ug/g	96.2	0.1	509745
Total Beryllium (Be)	ug/g	1.3	0.1	509745
Total Bismuth (Bi)	ug/g	ND	2.3	509745
Total Boron (B)	ug/g	19.1	0.5	509745
Total Cadmium (Cd)	ug/g	ND	0.3	509745
Total Calcium (Ca)	ug/g	25100	4	509745
Total Chromium (Cr)	ug/g	32.1	0.5	509745
Total Cobalt (Co)	ug/g	7.6	0.5	509745
Total Copper (Cu)	ug/g	19.4	0.4	509745
Total Iron (Fe)	ug/g	26700	0.6	509745
Total Lead (Pb)	ug/g	18.2	2.5	509745
Total Lithium (Li)	ug/g	150	2	509745
Total Magnesium (Mg)	ug/g	104000	0.3	509745
Total Manganese (Mn)	ug/g	233	0.15	509745
Total Molybdenum (Mo)	ug/g	ND	0.6	509745
Total Nickel (Ni)	ug/g	14.4	1	509745
Total Phosphorus Total (P)	ug/g	326	4	509745
Total Potassium (K)	ug/g	14100	100	509745
Total Selenium (Se)	ug/g	ND	3.3	509745
Total Silicon (Si)	ug/g	!! 333.097	2	509745
Total Silver (Ag)	ug/g	ND	0.7	509745
Total Sodium (Na)	ug/g	395	9	509745
Total Strontium (Sr)	ug/g	47.6	0.3	509745
Total Sulfur (S)	ug/g	!! 983.949	6.5	509745
Total Tin (Sn)	ug/g	ND	1.8	509745
Total Titanium (Ti)	ug/g	!! 972.095	0.3	509745
Total Tungsten (W)	ug/g	!! 3.25773	3	509745
Total Vanadium (V)	ug/g	47.3	0.3	509745
Total Zinc (Zn)	ug/g	86.2	0.3	509745

ND = Not detected
Please check for attached comments