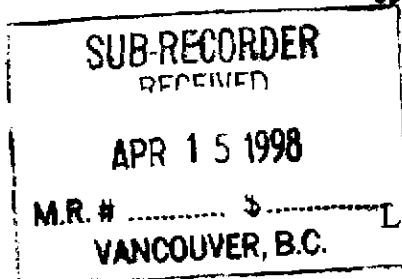


SILVERTIP PROJECT

1997 Summary Report

Volume 3

Geological Mapping, Seismic Surveying, and Diamond Drilling



56°56'N and 130°15'W
NTS sheet 104/O/16W

Lard Mining Division, British Columbia

BULL 1,2,4,7,8,10-12,15-28
CLIMAX 1-16
POST 1-5, 11-16
WAY 1-12, 16-27, 29-35Fr
BETH 1-4, RENEE 1, STAR 2-3, TOOTS 4

Owner: Silvertip Mining Corporation
Operator: Imperial Metals Corporation

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

April 9, 1998

Chris Rees

25,495

This report consists of the following Volumes;

- Volume 1: Text (including Tables, Figures, Photos and Maps)
- Volume 2: Appendix A - 1997 Diamond and Reverse Circulation Drill Core Logs
- Volume 3: Appendix B - Silvertip Project Assay Certificates
- Volume 4: Appendix C - Silvertip Petrographic Analysis
Appendix D - Silvertip Seismic - Final Report
Appendix E - Geology and Resource Estimation
Appendix F - Rock Quality Data
Appendix G - A Preliminary Analysis of Lithochemical Data from the Silvertip Project
Appendix H - Silvertip Project Quality Control Data
Appendix I - Silvertip Project History of Previous Work

Appendix B

Silvertip Project Assay

Certificates by Intertek Testing Services - Bondar Clegg



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01551.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 04-JUL-97 DATE PRINTED: 13-AUG-97 PAGE 1A(1/14)

SAMPLE NUMBER	ELEMENT UNITS	Au30	Ag	AgGrav	Cu	Pb	Pb	Pb	Zn	Zn	Zn	Ni	Mo	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	
		PPB	PPM	PPM	PPM	PPM	PCT	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM
139501		26		3.5		0.05			0.43																									
139502		<5		<0.7		0.04			0.54																									
139503		17		2.1		0.06			0.24																									
139504		<5		1.9		0.08			0.46																									
139505		1271	>200.0	503.1	533	>10000			>10000			4	<1	<1	163.5	<5	4720	>2000	>10.00	153	<10	<1	42	4	1916	43	<1	<0.01	<0.01	0.10	<0.01	<0.01	2	
139506		1827	>200.0	619.6	521	>10000			>10000			3	<1	<1	190.8	<5	6460	>2000	>10.00	189	<10	<1	53	3	>2000	51	<1	<0.01	<0.01	0.08	<0.01	<0.01	2	
139507		2510	>200.0	466.7	1070	>10000			>10000			3	<1	<1	580.9	<5	6969	>2000	>10.00	427	20	<1	45	1	1876	150	14	<0.01	<0.01	0.10	<0.01	<0.01	2	
139508		3417	>200.0	321.4	1042	>10000			>10000			7	3	<1	563.7	<5	8067	>2000	>10.00	559	17	<1	74	2	>2000	185	21	<0.01	<0.01	0.71	<0.01	<0.01	4	
139509		1438	>200.0	580.0	714	>10000			>10000			5	<1	<1	376.7	<5	6827	>2000	>10.00	252	11	<1	44	2	1809	93	1	<0.01	<0.01	0.22	<0.01	<0.01	2	
139510		1780	>200.0	343.6	412	>10000			>10000			7	<1	<1	170.7	<5	5407	837	>10.00	221	<10	<1	78	3	508	44	1	<0.01	<0.01	0.39	<0.01	<0.01	2	
139511		777	>200.0	472.5	868	>10000			>10000			5	<1	<1	549.5	<5	7003	>2000	>10.00	384	22	<1	43	2	>2000	155	2	<0.01	<0.01	0.50	<0.01	<0.01	2	
139512		1363	159.7	246.1	503	>10000			>10000			7	1	<1	456.5	<5	5852	1232	>10.00	284	17	<1	79	2	721	129	2	<0.01	<0.01	0.07	<0.01	<0.01	2	
139513		1826	145.2	212.3	636	>10000			>10000			10	<1	<1	559.5	<5	7164	1417	>10.00	377	13	<1	67	1	477	170	2	<0.01	<0.01	0.16	<0.01	<0.01	2	
139514		4485	40.6		434	7657			>10000			10	<1	1	469.3	<5	>10000	237	>10.00	340	14	<1	92	2	324	138	4	<0.01	<0.01	0.09	<0.01	<0.01	2	
139515		1377	>200.0	1358.1	2185	>10000			>10000			5	<1	<1	446.1	<5	7374	>2000	>10.00	404	12	<1	28	1	>2000	127	6	<0.01	<0.01	0.16	<0.01	<0.01	2	
139516		709	>200.0	1776.9	2290	>10000			>10000			10	2	2	338.3	<5	4947	>2000	>10.00	411	<10	<1	32	1	>2000	96	13	<0.01	<0.01	0.75	<0.01	<0.01	4	
139517		881	140.3	169.3	215	>10000			>10000			29	2	4	135.7	<5	2901	446	>10.00	930	<10	2	63	2	279	38	3	<0.01	0.02	5.34	<0.01	<0.01	18	
139518		30	8.8		7	2064			2227			13	1	3	7.2	<5	94	42	1.64	1723	<10	63	10	2	22	<20	3	0.02	0.18	>10.00	<0.01	<0.01	110	
139520		60		123.0			2.93		1.72																									
139521		10		28.3			0.75		0.22																									
139522		908		573.6		10.51			12.35																									
139523		10		84.7		1.24			0.12																									
139524		93		654.1		17.49			6.60																									
139525		<5		1.6		<0.01			<0.01																									
139526		10		8.5		0.16			<0.01																									
139527		2087		525.6		9.24			19.40																									
139528		2205		622.8		14.52			18.54																									
139529		3094		443.4		8.65			16.00																									
139530		2283		277.6		5.32			9.93																									
139531		1453		172.5		5.38			4.97																									



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
		PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM
139501										
139502										
139503										
139504										
139505		<1	7	<1	<1	<5	<10	<.01	7	2448
139506		<1	8	<1	<1	<5	<10	<.01	8	4334
139507		<1	36	<1	<1	<5	<10	<.01	7	1958
139508		1	39	<1	<1	<5	<10	<.01	6	3628
139509		<1	18	<1	<1	<5	<10	<.01	7	2191
139510		<1	7	<1	<1	<5	<10	<.01	7	797
139511		<1	31	<1	<1	<5	<10	<.01	7	3238
139512		<1	28	<1	<1	<5	<10	<.01	6	1200
139513		<1	38	<1	<1	<5	<10	<.01	7	707
139514		<1	32	<1	<1	<5	<10	<.01	7	497
139515		<1	23	<1	<1	<5	<10	<.01	6	3362
139516		1	17	<1	<1	<5	<10	<.01	5	3748
139517		3	<2	<1	<1	<5	<10	<.01	8	202
139518		4	<2	<1	1	<5	<10	<.01	<1	29
139520										268
139521										293
139522										3744
139523										1349
139524										1183
139525										9
139526										20
139527										1038
139528										1624
139529										2527
139530										1320
139531										294



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SAMPLE NUMBER	ELEMENT Au30		Ag	AgGrav	Cu	Pb	Pb	Pb	Zn	Zn	Zn	Ni	Mo	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr		
	UNITS	PPB	PPM	PPM	PPM	PPM	PCT	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM		
139532		1256		40.5			0.67			4.63																									
139533		1568		54.3			1.72			2.20																									
139534		4107		206.6			3.56				17.11																								
139535		610		521.3			13.46			10.19																									
139536		1441		235.2			5.40			3.34																									
139537		2009		556.0			7.80			12.70																									
139538		1597		392.8			7.67			7.95																									
139539		2674		551.1			12.12				17.53																								
139540		1104		444.7			12.52				18.55																								
139541		403		288.0			7.80			14.65																									
139542		734		660.4				16.95			18.57																								
139543		<5		2.8			0.06			0.06																									
139544		754		608.6				15.58			18.11																								



Intertek Testing Services
Bondar Clegg

**Geochemical
Lab
Report**

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SAMPLE NUMBER	ELEMENT	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
		UNITS	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM
139532										228
139533										219
139534										1608
139535										921
139536										872
139537										4213
139538										3616
139539										2853
139540										2223
139541										1526
139542										2117
139543										14
139544										1773



Intertek Testing Services

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PROJECT: SILVERTIP
PAGE 3A(5/14)

STANDARD	ELEMENT	Au30	Ag	AgGrav	Cu	Pb	Pb	Pb	Zn	Zn	Zn	Ni	Mo	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr
NAME	UNITS	PPB	PPM	PPM	PPM	PPM	PCT	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT
ANALYTICAL BLANK		<5	<0.2	-	<1	4	-	-	21	-	-	<1	<1	<1	<0.2	<5	<5	<5	0.02	4	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<.01
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		3	1	-	1	1	-	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	0.1	-	0.5	4	-	-	21	-	-	0.5	0.5	0.5	0.1	3	3	3	0.02	4	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		5	0.2	0.005	1	2	<.001	<.001	1	<.0001	<.001	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01
Gannet Standard	1061	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	1061	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 6		-	0.4	-	127	23	-	-	129	-	-	116	3	28	0.8	<5	127	<5	6.62	1264	<10	4	132	39	<20	<20	2	1.69	2.41	3.38	0.01	0.04	74
Number of Analyses		-	1	-	1	1	-	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	0.4	-	127	23	-	-	129	-	-	116	3	28	0.8	3	127	3	6.62	1264	5	4	132	39	10	10	2	1.69	2.41	3.38	0.01	0.04	74
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	0.2	-	140	18	-	-	140	-	-	135	4	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

Bondar Clegg

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STANDARD NAME	ELEMENT	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM
ANALYTICAL BLANK		<1	<2	<1	<1	<5	<10	<.01	<1	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
Number of Analyses		1	1	1	1	1	1	1	1	-
Mean Value		0.5	1	0.5	0.5	3	5	.005	0.5	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		.01	.01	.01	.01	.01	.01	<.01	.01	.005
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 6		3	2	19	2	7	<10	<.01	7	-
Number of Analyses		1	1	1	1	1	1	1	1	-
Mean Value		3	2	19	2	7	5	.005	7	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		3	-	24	2	6	1	.003	5	5
CANMET SD-2 REF STD		-	-	-	-	-	-	-	-	4
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	4
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	2
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT Au30 UNITS PPB	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Ni PPM	Mo PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	
FA SYNTHETIC STD	-	-	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorspar Granite	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD	-	-	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard	1609	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	1609	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET STD KC-1A	-	-	-	-	-	2.21	-	>15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	2.21	-	15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	2.24	-	36.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium Ore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
Fluorspar Granite		-	-	-	-	-	-	-	-	<4
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	2
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	3
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
CANMET STD KC-1A		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
Lithium Ore		-	-	-	-	-	-	-	-	1967
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	1967
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	1900



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STANDARD	ELEMENT Au30	Ag	AgGrav	Cu	Pb	Pb	Pb	Zn	Zn	Zn	Ni	Mo	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr
NAME	UNITS PPB	PPM	PPM	PPM	PPM	PCT	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM
USDI STD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM
USDI STD		-	-	-	-	-	-	-	-	57
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	57
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	55



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SAMPLE NUMBER	ELEMENT Au30 UNITS PPB	Ag AgGrav PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Ni PPM	Mo PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM		
139501	26		3.5			0.05			0.43																									
Duplicate						0.03			0.42																									
139502	<5		<0.7			0.04			0.54																									
Duplicate	6																																	
139506	1827	>200.0	619.6	521	>10000			>10000			3	<1	<1	190.8	<5	6460	>2000	>10.00	189	<10	<1	53	3	>2000	51	<1	<.01	<.01	0.08	<.01	<.01	2		
Duplicate		>200.0		516	>10000			>10000			4	<1	<1	190.3	<5	5957	>2000	>10.00	188	<10	<1	52	3	>2000	47	<1	<.01	<.01	0.08	<.01	<.01	2		
139520	60		123.0			2.93			1.72																									
Duplicate			120.6																															
139525	<5		1.6			<0.01			<0.01																									
Duplicate	11					<0.01			<0.01																									
139527	2087		525.6			9.24			19.40																									
Duplicate			519.7																															
139530	2283		277.6			5.32			9.93																									
Duplicate						5.40			9.72																									
139533	1568		54.3			1.72			2.20																									
Prep Duplicate	1537		62.0			1.83			2.16																									
139535	610		521.3			13.46			10.19																									
Duplicate						13.41			10.61																									
139539	2674		551.1			12.12			17.53																									
Duplicate			543.4																															
139540	1104		444.7			12.52			18.55																									
Duplicate						12.78																												
139543	<5		2.8			0.06			0.06																									
Prep Duplicate	7		2.7			0.05			0.04																									



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SAMPLE NUMBER	ELEMENT	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM

139501										
Duplicate										
139502										
Duplicate										
139506		<1	8	<1	<1	<5	<10	<.01	8	4334
Duplicate		<1	8	<1	<1	<5	<10	<.01	6	4339
139520										268
Duplicate										
139525										9
Duplicate										9
139527										1038
Duplicate										
139530										1320
Duplicate										
139533										219
Prep Duplicate										238
139535										921
Duplicate										
139539										2853
Duplicate										
139540										2223
Duplicate										
139543										14
Prep Duplicate										9



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SAMPLE NUMBER	ELEMENT UNITS	Al ₂ O ₃ PPB	Ag PPM	Ag Grav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Ni PPM	Mo PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM
---------------	---------------	------------------------------------	--------	-------------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	-------	--------	-------	--------	--------	--------	--------	--------	-------	--------

Duplicate



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SAMPLE NUMBER	ELEMENT	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
	UNITS	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM

Duplicate										9
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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
D2 139505		<10	6.03
D2 139506		<10	6.56
D2 139507		<10	15.90
D2 139508		<10	31.50
D2 139509		<10	6.63
D2 139510		<10	3.75
D2 139511		<10	6.82
D2 139512		<10	8.65
D2 139513		<10	9.01
D2 139514		<10	4.45
D2 139515		<10	18.30
D2 139516		<10	10.70
D2 139517		<10	8.76
D2 139518		<10	0.97
D2 139520		<10	16.10
D2 139521		<10	1.62
D2 139522		<10	19.00
D2 139523		<10	1.88
D2 139524		<10	34.80
D2 139525		<10	0.16
D2 139526		<10	0.79
D2 139527		<10	48.10
D2 139528		<10	22.00
D2 139529		<10	17.70
D2 139530		<10	14.80
D2 139531		<10	10.30
D2 139532		<10	7.19
D2 139533		<10	2.65
D2 139534		<10	11.60
D2 139535		<10	51.20
D2 139536		<10	4.20
D2 139538		<10	3.53
D2 139539		<10	6.27
D2 139540		<10	33.20
D2 139541		<10	51.50
D2 139542		<10	51.40
D2 139543		<10	0.31
D2 139544		<10	50.40



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STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
CANMET Std CZN-1		<10	94.50
CANMET Std CZN-1		-	86.90
Number of Analyses		1	2
Mean Value		5.0	90.700
Standard Deviation		-	5.3739
Accepted Value		-	-

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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139515		<10	18.30
Duplicate			19.50
139535		<10	51.20
Duplicate			49.40

Bondar-Clegg & Company Ltd.

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CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01664.0 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM
140951		99	>200.0	1031.1	480	>10000		46.37	3525	0.41	9	36	<1	45.5	77	1913	1127	>10.00	109	33	101	45	<1	121	<20	2	0.51	<.01	0.10	<.01	0.02	5	7	21
140952		311	63.6	88.5	1466	>10000	2.36		5212	0.85	22	85	<1	52.7	50	8493	118	>10.00	895	<10	182	13	<1	160	<20	4	0.44	0.02	0.18	<.01	0.05	5	12	44
140953		673	>200.0	6775.5	361	>10000		72.96	1577	0.15	2	3	<1	47.0	64	910	>2000	1.35	104	<10	20	2	<1	639	<20	<1	0.02	<.01	0.02	<.01	<.01	9	1	5
140954		1368	>200.0	367.7	845	>10000	7.57		8131	1.43	29	107	3	152.9	128	>10000	649	>10.00	937	13	101	9	<1	154	<20	4	<.01	<.01	0.14	<.01	0.05	6	30	58
140955		<5	5.1	5.7	9	591	0.03		28	<0.01	3	10	<1	0.3	7	63	<5	1.73	17	<10	156	316	4	<20	<20	4	0.08	<.01	<0.01	<.01	0.28	26	<1	<2
140956		<5	0.8	<0.7	27	73	<.01		25	<0.01	3	9	<1	<0.2	6	38	<5	2.61	19	<10	224	274	10	<20	<20	8	0.24	0.04	0.02	<.01	0.36	36	1	<2
140957		11	0.5	<0.7	6	60	<.01		18	<0.01	2	8	<1	<0.2	<5	29	<5	0.87	14	<10	4	294	2	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2
140958		<5	0.8	<0.7	132	64	<.01		95	<0.01	9	26	2	2.8	10	462	<5	8.01	42	<10	210	236	41	<20	<20	7	0.32	0.02	0.06	<.01	0.13	58	3	<2
140959		<5	0.5	<0.7	13	57	<.01		81	<0.01	3	12	1	0.3	<5	65	<5	1.08	16	<10	120	267	3	<20	<20	2	0.05	<.01	0.02	<.01	0.07	10	1	<2
140960		31	17.6	27.6	378	401	0.05		>10000	2.26	15	63	<1	47.0	28	453	50	>10.00	199	11	426	4	<1	51	<20	2	0.03	0.01	0.03	<.01	0.05	4	6	<2
140961		95	>200.0	494.6	1221	>10000	3.88		3742	0.52	11	53	9	10.4	785	1754	498	>10.00	907	22	84	38	4	1331	<20	4	1.20	<.01	0.08	<.01	0.03	42	25	17
140962		<5	0.3	<0.7	3	42	<.01		67	<0.01	2	3	<1	0.2	9	<5	<5	0.58	371	<10	486	2	6	<20	<20	2	0.04	7.39	>10.00	<.01	0.01	286	3	<2
140963		<5	0.5	<0.7	34	75	<.01		126	<0.01	4	20	2	<0.2	<5	51	<5	1.51	29	<10	23	520	7	<20	<20	1	0.23	0.02	0.05	<.01	0.03	9	1	<2
140964		<5	0.2	<0.7	15	30	<.01		19	<0.01	4	21	1	<0.2	<5	15	<5	0.73	25	<10	14	538	2	<20	<20	<1	0.11	<.01	0.04	<.01	0.02	14	<1	<2



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SAMPLE NUMBER	ELEMENT UNITS	Li	Nb	Sc	Ta	Ti	Zr
		PPM	PPM	PPM	PPM	PCT	PPM
140951		<1	<1	<5	<10	<.01	<1
140952		<1	<1	<5	<10	<.01	<1
140953		<1	<1	<5	<10	<.01	<1
140954		<1	<1	<5	<10	<.01	<1
140955		<1	<1	<5	<10	<.01	2
140956	6	<1	<1	<5	<10	<.01	6
140957		<1	<1	<5	<10	<.01	<1
140958		<1	<1	<5	<10	<.01	2
140959		<1	<1	<5	<10	<.01	2
140960		<1	<1	<5	<10	<.01	<1
140961		<1	<1	<5	<10	<.01	<1
140962	3 7	<1	<1	<5	<10	<.01	<1
140963		<1	<1	<5	<10	<.01	2
140964		<1	<1	<5	<10	<.01	<1



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.

REPORT: V97-01664.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 14-JUL-97

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STANDARD NAME	ELEMENT UNITS	AU30 PPB	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM		
ANALYTICAL BLANK		<5	<0.2	-	<1	<2	-	-	1	-	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Number of Analyses		1	1	-	1	1	-	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	0.1	-	0.5	1	-	-	1	-	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	1	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.2	0.005	1	2	<.01	<.001	1	<.0001	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	
Garnet Standard		388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD		-	-	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD		-	-	-	-	4.20	-	-	>15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	4.20	-	-	15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	4.33	4.33	-	19.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 6		-	0.4	-	137	44	-	-	130	-	3	120	31	0.5	<5	142	<5	6.97	1358	<10	8	160	41	<20	<20	2	1.79	2.52	3.61	<.01	0.04	76	3	<2		
Number of Analyses		-	1	-	1	1	-	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		-	0.4	-	137	44	-	-	130	-	3	120	31	0.5	3	142	3	6.97	1358	5	8	160	41	10	10	2	1.79	2.52	3.61	.005	0.04	76	3	1		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		-	0.2	-	140	18	-	-	140	-	4	135	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-		



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-D1664.0 (COMPLETE)

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PROJECT: SILVERTIP
PAGE 2B(4/ 6)

STANDARD NAME	ELEMENT UNITS	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
---------------	---------------	--------	--------	--------	--------	--------	--------

ANALYTICAL BLANK		<1	<1	<5	<10	<.01	<1
Number of Analyses		1	1	1	1	1	1
Mean Value		0.5	0.5	3	5	.005	0.5
Standard Deviation		-	-	-	-	-	-
Accepted Value		.01	.01	.01	.01	<.01	.01

Garnet Standard		-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-
Mean Value		-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-

FA SYNTHETIC STD		-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-
Mean Value		-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-

CANMET CERTIFIED STD		-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-
Mean Value		-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-

BCC GEOCHEM STD 6		21	3	8	<10	<.01	4
Number of Analyses		1	1	1	1	1	1
Mean Value		21	3	8	5	.005	4
Standard Deviation		-	-	-	-	-	-
Accepted Value		24	2	6	1	.003	5



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01664.0 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM
140951 Duplicate	99	>200.0	1031.1	480	>10000	46.37			3525	0.41	9	36	<1	45.5	77	1913	1127	>10.00	109	33	101	45	<1	121	<20	2	0.51	<.01	0.10	<.01	0.02	5	7	21
										0.40																								
140954 Prep Duplicate	1368	>200.0	367.7	845	>10000	7.57			8131	1.43	29	107	3	152.9	128	>10000	649	>10.00	937	13	101	9	<1	154	<20	4	<.01	<.01	0.14	<.01	0.05	6	30	58
	1489	>200.0	390.8	851	>10000	7.39			8001	1.42	30	106	3	150.4	119	>10000	597	>10.00	920	11	92	9	<1	187	<20	4	<.01	<.01	0.14	<.01	0.05	5	29	54
140955 Duplicate	<5	5.1	5.7	9	591	0.03			28	<0.01	3	10	<1	0.3	7	63	<5	1.73	17	<10	156	316	4	<20	<20	4	0.08	<.01	<0.01	<.01	0.28	26	<1	<2
	22	4.6		7	518				12		3	9	<1	<0.2	6	54	<5	1.69	17	<10	153	306	4	<20	<20	3	0.08	<.01	<0.01	<.01	0.27	25	<1	<2
140956 Duplicate	<5	0.8	<0.7	27	73	<.01			25	<0.01	3	9	<1	<0.2	6	38	<5	2.61	19	<10	224	274	10	<20	<20	8	0.24	0.04	0.02	<.01	0.36	36	1	<2
			<0.7																															
140960 Duplicate	31	17.6	27.6	378	401	0.05			>10000	2.26	15	63	<1	47.0	28	453	50	>10.00	199	11	426	4	<1	51	<20	2	0.03	0.01	0.03	<.01	0.05	4	6	<2
						0.06				2.28																								
Prep Duplicate Duplicate	1489	>200.0	390.8	851	>10000	7.39			8001	1.42	30	106	3	150.4	119	>10000	597	>10.00	920	11	92	9	<1	187	<20	4	<.01	<.01	0.14	<.01	0.05	5	29	54
						7.40				1.42																								



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01664.D (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Li	Nb	Sc	Ta	Ti	Zr
		PPM	PPM	PPM	PPM	PCT	PPM
140951		<1	<1	<5	<10	<.01	<1
Duplicate							
140954		<1	<1	<5	<10	<.01	<1
Prep Duplicate		<1	<1	<5	<10	<.01	<1
140955		<1	<1	<5	<10	<.01	2
Duplicate		<1	<1	<5	<10	<.01	3
140956		6	<1	<5	<10	<.01	6
Duplicate							
140960		<1	<1	<5	<10	<.01	<1
Duplicate							
Prep Duplicate		<1	<1	<5	<10	<.01	<1
Duplicate							



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01661.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 14-JUL-97 DATE PRINTED: 11-AUG-97 PAGE 1A(1 / 8)

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Au30 PPB	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM
139545		63.8	70.8	149	>10000	1.70	9336	1.18		13	78	14	61.3	46	<5	185	98	3.21	448	<10	20	255	92	88	<20	4	0.40	0.05	2.24	<.01	0.21	95	11	4	<1
139546		2.4	3.4	12	542	0.06	650	0.08		<1	6	<1	3.7	<5	12	29	<5	0.66	650	<10	37	3	4	<20	<20	3	0.08	0.56	>10.00	<.01	0.03	263	4	<2	<1
139547		9.8	12.3	164	764	0.10	2258	0.32		4	6	1	10.8	13	64	115	22	2.14	677	<10	14	3	4	<20	<20	2	0.13	1.17	>10.00	<.01	0.03	117	3	<2	<1
139548		1.1	2.1	9	171	<0.01	500	0.06		3	5	<1	2.1	<5	14	29	10	0.73	760	<10	14	2	3	<20	<20	3	0.08	0.39	>10.00	<.01	0.02	144	4	<2	<1
139549		<0.2	1.1	12	61	<0.01	411	0.05		19	9	2	1.1	27	10	138	29	2.49	1179	<10	18	6	6	<20	<20	4	0.15	2.36	>10.00	<.01	0.03	98	6	<2	<1
139550		0.9	2.0	12	83	<0.01	192	0.02		19	6	<1	1.2	14	11	197	29	1.48	1159	<10	15	1	3	<20	<20	3	0.12	2.00	>10.00	<.01	0.01	93	4	<2	<1
139551		93.5	127.2	2408	>10000	2.09	>10000	10.80		5	4	<1	398.8	35	107	898	139	>10.00	370	31	2	58	<1	153	<20	12	0.03	0.12	2.24	<.01	0.03	11	2	8	<1
139552		178.2	222.8	1852	>10000	3.65	>10000		27.14	2	5	<1	1111.2	53	273	969	176	>10.00	601	46	<1	87	<1	248	<20	6	0.03	0.05	0.29	<.01	0.02	2	1	35	<1
139553		9.9	14.0	116	1282	0.17	8356	1.35		1	1	<1	56.7	28	17	379	12	3.07	1119	<10	8	3	<1	31	<20	3	0.09	2.80	>10.00	<.01	0.04	107	4	3	<1
139554		>200.0	715.3	1682	>10000	11.68	>10000	11.88		2	3	<1	539.3	273	66	1561	424	>10.00	610	30	<1	57	<1	626	<20	2	<.01	0.05	5.39	<.01	0.02	24	1	28	<1
139555		0.9	2.2	46	140	<0.01	550	0.06		<1	1	<1	3.1	<5	42	65	8	1.37	814	<10	8	1	1	<20	<20	3	0.07	1.30	>10.00	<.01	0.03	123	3	<2	<1
139556		1.1	2.1	134	52	<0.01	2587	0.36		1	1	<1	13.7	11	18	295	11	4.95	1484	<10	6	6	<1	<20	<20	3	0.04	0.40	>10.00	<.01	<.01	144	3	<2	<1
139557		20.3	27.1	554	484	0.06	>10000		16.48	1	2	<1	593.4	43	47	338	40	>10.00	1242	31	5	16	<1	141	<20	1	0.03	0.19	9.82	<.01	0.02	65	2	22	<1
139558		21.0	27.2	475	2863	0.37	>10000	4.27		4	25	15	151.5	132	74	2279	77	>10.00	679	19	4	208	<1	233	<20	2	0.36	0.48	1.37	<.01	0.22	31	4	3	<1



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01661.0 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Nb	Sc	Ta	Ti	Zr	Sn
		PPM	PPM	PPM	PCT	PPM	PPM
139545	4	<5	<10	<.01	5		
139546	5	<5	<10	<.01	<1		
139547	5	<5	<10	<.01	1		
139548	5	<5	<10	<.01	2		
139549	5	<5	<10	<.01	3		
139550	5	<5	<10	<.01	<1		
139551	<1	<5	<10	<.01	<1	165	
139552	<1	<5	<10	<.01	<1	284	
139553	5	<5	<10	<.01	<1	47	
139554	<1	<5	<10	<.01	<1	699	
139555	6	<5	<10	<.01	<1		
139556	3	<5	<10	<.01	<1		
139557	<1	<5	<10	<.01	<1	198	
139558	<1	<5	<10	<.01	<1	263	



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Au30 PPB	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	
ANALYTICAL BLANK		<0.2	-	<1	2	-	3	-	-	<1	<1	<1	<0.2	<5	<5	<5	<5	<0.01	2	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	0.02	<.01	<.01	<1	<1	<2	<1	
Number of Analyses		1	-	1	1	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.1	-	0.5	2	-	3	-	-	0.5	0.5	0.5	0.1	3	3	3	3	0.005	2	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.02	.005	.005	0.5	0.5	1	0.5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.2	0.005	1	2	<.001	1	<.001	<.001	1	1	1	0.1	5	2	5	5	0.05	1	.01	.01	1	1	.01	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	
Gannet Standard		-	-	-	-	-	-	-	-	-	-	-	-	1093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	1093	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD		-	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC Base Metal Ref.		-	-	-	-	8.22	-	2.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	8.22	-	2.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	8.28	-	3.04	3.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 6		0.2	-	143	17	-	142	-	-	4	121	31	0.5	-	<5	133	<5	7.20	1391	<10	6	169	43	<20	<20	2	1.86	2.62	3.70	<.01	0.05	79	3	<2	20	
Number of Analyses		1	-	1	1	-	1	-	-	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		0.2	-	143	17	-	142	-	-	4	121	31	0.5	-	3	133	3	7.20	1391	5	6	169	43	10	10	2	1.86	2.62	3.70	.005	0.05	79	3	1	20	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		0.2	-	140	18	-	140	-	-	4	135	35	0.2	-	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-	24	
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



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STANDARD NAME	ELEMENT UNITS	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Sn PPM
ANALYTICAL BLANK		<1	<5	<10	<.01	<1	-
Number of Analyses		1	1	1	1	1	-
Mean Value		0.5	3	5	.005	0.5	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		.01	.01	.01	<.01	.01	.01
Gannet Standard		-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-
Mean Value		-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-
Mean Value		-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-
BCC Base Metal Ref.		-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-
Mean Value		-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-
BCC GEOCHEM STD 6		3	8	<10	<.01	4	-
Number of Analyses		1	1	1	1	1	-
Mean Value		3	8	5	.005	4	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		2	6	1	.003	5	5
CANMET SO-2 REF STD		-	-	-	-	-	6
Number of Analyses		-	-	-	-	-	1
Mean Value		-	-	-	-	-	6
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	2



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STANDARD	ELEMENT	Ag	AgGrav	Cu	Pb	Pb	Zn	Zn	Zn	Mo	Ni	Co	Cd	Au30	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	
NAME	UNITS	PPM	PPM	PPM	PPM	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPB	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	
Fluorspar Granite		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT	Nb	Sc	Ta	Ti	Zr	Sn
	UNITS	PPM	PPM	PPM	PCT	PPM	PPM
Fluorspar Granite	-	-	-	-	-	-	<4
Number of Analyses	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	2
Standard Deviation	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	3



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SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Au30 PPB	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM
139545		63.8	70.8	149	>10000	1.70	9336	1.18		13	78	14	61.3	46	<5	185	98	3.21	448	<10	20	255	92	88	<20	4	0.40	0.05	2.24	<.01	0.21	95	11	4	<1
Duplicate						1.72		1.20																											
139546		2.4	3.4	12	542	0.06	650	0.08		<1	6	<1	3.7	<5	12	29	<5	0.66	650	<10	37	3	4	<20	<20	3	0.08	0.56	>10.00	<.01	0.03	263	4	<2	<1
Duplicate		2.4		13	553		635			1	5	<1	3.7	<5	13	26	<5	0.65	661	<10	37	3	4	<20	<20	3	0.07	0.57	>10.00	<.01	0.03	270	4	<2	<1
139549		<0.2	1.1	12	61	<0.01	411	0.05		19	9	2	1.1	27	10	138	29	2.49	1179	<10	18	6	6	<20	<20	4	0.15	2.36	>10.00	<.01	0.03	98	6	<2	<1
Prep Duplicate		<0.2	0.9	13	70	<0.01	601	0.07		19	10	2	1.7	<5	10	128	29	2.42	1296	<10	21	7	7	<20	<20	4	0.18	2.23	>10.00	<.01	0.04	97	6	<2	<1
139550		0.9	2.0	12	83	<0.01	192	0.02		19	6	<1	1.2	14	11	197	29	1.48	1159	<10	15	1	3	<20	<20	3	0.12	2.00	>10.00	<.01	0.01	93	4	<2	<1
Duplicate			1.5																																
139552		178.2	222.8	1852	>10000	3.65	>10000		27.14	2	5	<1	1111.2	53	273	969	176	>10.00	601	46	<1	87	<1	248	<20	6	0.03	0.05	0.29	<.01	0.02	2	1	35	<1
Duplicate																																			
139554		>200.0	715.3	1682	>10000	11.68	>10000	11.88		2	3	<1	539.3	273	66	1561	424	>10.00	610	30	<1	57	<1	626	<20	2	<.01	0.05	5.39	<.01	0.02	24	1	28	<1
Duplicate						11.72		11.74																											
Prep Duplicate		<0.2	0.9	13	70	<0.01	601	0.07		19	10	2	1.7	<5	10	128	29	2.42	1296	<10	21	7	7	<20	<20	4	0.18	2.23	>10.00	<.01	0.04	97	6	<2	<1
Duplicate						<0.01		0.07																											



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SAMPLE NUMBER	ELEMENT UNITS	Nb	Sc	Ta	Ti	Zr	Sn
		PPM	PPM	PPM	PCT	PPM	PPM
139545 Duplicate		4	<5	<10	<.01		5
139546 Duplicate		5	<5	<10	<.01	<1	
139549 Prep Duplicate		5	<5	<10	<.01		3
139550 Duplicate		5	<5	<10	<.01	<1	
139552 Duplicate		<1	<5	<10	<.01	<1	284 276
139554 Duplicate		<1	<5	<10	<.01	<1	699
Prep Duplicate Duplicate		5	<5	<10	<.01		4



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
D2 139551		<10	58.50
D2 139552		<10	113.00
D2 139553		<10	7.90
D2 139554		<10	61.90
D2 139557		<10	80.20
D2 139558		<10	29.40



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STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
CANMET Std CZN-1		<10	108.00
Number of Analyses		1	1
Mean Value		5.0	108.000
Standard Deviation		-	-
Accepted Value		-	-



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139554		<10	61.90
Duplicate			64.60



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SAMPLE NUMBER	ELEMENT	Au30	Ag	AgGrav	Cu	CuOL	Pb	Pb	Pb	Zn	Zn	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na
	UNITS	PPB	PPM	PPM	PPM	PCT	PPM	PCT	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT
139559		224	>200.0	1619.2	7233	>10000		29.43	>10000		33.06	<1	<1	2	1361.2	463	2297	>2000	4.85	880	67	<1	16	<1	>2000	<20	3	<.01	<.01	0.03	<.01	
139560		30	53.1	51.7	370	>10000	1.24		>10000	2.88		2	22	3	171.8	<5	201	210	1.31	138	17	33	324	7	250	<20	8	0.26	0.05	0.24	<.01	
139561		106	>200.0	556.0	5761	>10000	11.35		>10000		45.45	<1	4	2	1927.8	75	1337	1313	5.21	1297	50	<1	35	<1	>2000	<20	3	0.02	<.01	0.02	<.01	
139562		22	23.6	24.5	385		5096	0.50		8167	0.89		2	31	6	57.7	<5	154	81	1.39	57	<10	61	300	10	317	<20	10	0.39	0.02	0.19	<.01
139563		116	>200.0	1282.9	3967	>10000		32.03	>10000		35.87	<1	18	4	1804.3	172	2520	>2000	3.40	939	66	2	7	<1	>2000	<20	2	<.01	<.01	<0.01	<.01	
139564		137	>200.0	868.2	3579	>10000		19.25	>10000		39.64	<1	6	2	1906.9	12	1712	>2000	4.17	1058	51	2	29	<1	>2000	<20	6	0.08	<.01	0.02	<.01	
139565		199	>200.0	853.5	>10000	1.1	>10000	3.05		>10000	27.93	<1	21	4	1306.1	<5	3056	>2000	7.74	833	46	<1	135	<1	>2000	<20	<1	0.04	<.01	0.05	<.01	
139566		88	157.1	173.7	3313	>10000	4.02		>10000		27.72	<1	15	4	1293.4	<5	647	331	3.50	982	48	11	142	3	>2000	<20	2	0.19	0.21	0.56	<.01	
139567		212	>200.0	327.4	3469	>10000	4.35		>10000		26.10	<1	11	3	1141.8	<5	2227	991	7.16	807	48	2	136	<1	>2000	<20	1	0.11	0.04	0.14	<.01	
139568		43	18.9	22.0	99		5662	0.59		3877	0.38		37	119	12	24.1	<5	391	48	2.51	89	<10	15	101	59	43	<20	5	0.42	0.18	0.52	<.01
139569		214	140.1	186.5	865	>10000	3.69		>10000	6.58		9	28	3	272.0	<5	2881	597	7.40	738	23	12	56	16	425	<20	28	0.12	2.66	6.66	<.01	
139570		308	155.4	210.5	845	>10000	4.80		>10000	7.01		9	29	3	321.6	<5	4323	733	>10.00	581	24	8	63	18	443	<20	41	0.15	1.72	4.98	<.01	
139571		156	61.2	107.1	416	>10000	2.62		>10000	4.34		5	12	1	132.8	<5	1571	275	4.34	585	13	11	38	6	212	<20	13	0.05	2.53	>10.00	<.01	
139572		109	63.2	89.3	442	>10000	1.84		>10000	2.79		13	21	2	112.2	<5	1503	276	5.45	785	12	13	34	17	230	<20	10	0.10	4.37	>10.00	<.01	
139573		<5	1.9	3.3	11		421	0.05		313	0.01		3	3	<1	1.8	12	101	18	0.67	357	<10	69	<1	2	<20	<20	3	<.01	0.63	>10.00	<.01
139574		1108	>200.0	1844.9	3056	>10000		31.95	9188	1.40		5	5	<1	98.8	<5	6604	>2000	>10.00	572	10	<1	50	<1	582	<20	3	<.01	0.03	3.04	<.01	
139575		542	189.8	279.2	573	>10000	5.59		>10000	5.00		33	18	2	208.8	16	2242	268	9.18	863	16	13	10	<1	426	<20	21	0.03	0.29	>10.00	<.01	
139576		460	166.4	237.1	3297	>10000	4.25		>10000	14.49		11	13	1	<521.7	316	>10000	>2000	>10.00	666	40	<1	47	<1	679	<20	3	0.02	<.01	2.36	<.01	
139577		106	32.2	49.1	1486		1662	0.23		>10000	9.78		3	13	3	356.0	218	8890	458	>10.00	517	28	3	29	<1	348	<20	<1	0.02	0.24	3.86	<.01



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SAMPLE NUMBER	ELEMENT UNITS	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr
		PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM
139559		<.01	1	<1	136	<1	<1	<5	<10	<.01	<1
139560		0.12	15	3	14	<1	<1	<5	<10	<.01	5
139561		0.01	1	<1	175	<1	<1	<5	<10	<.01	<1
139562		0.20	16	4	5	<1	<1	<5	<10	<.01	6
139563		<.01	<1	<1	118	<1	<1	<5	<10	<.01	<1
139564		0.05	3	1	131	<1	<1	<5	<10	<.01	1
139565		0.03	2	1	105	<1	<1	<5	<10	<.01	1
139566		0.11	11	2	112	<1	<1	<5	<10	<.01	2
139567		0.07	4	1	122	<1	<1	<5	<10	<.01	<1
139568		0.15	11	4	<2	<1	2	<5	<10	<.01	12
139569		0.05	44	4	23	1	2	<5	<10	<.01	1
139570		0.06	30	4	22	<1	<1	<5	<10	<.01	1
139571		0.02	43	3	10	<1	3	<5	<10	<.01	<1
139572		0.04	56	3	10	1	4	<5	<10	<.01	<1
139573		<.01	107	3	<2	<1	5	<5	<10	<.01	<1
139574		0.02	9	5	<2	<1	<1	<5	<10	<.01	<1
139575		<.01	77	5	12	<1	<1	<5	<10	<.01	<1
139576		0.02	8	1	47	<1	<1	<5	<10	<.01	<1
139577		0.02	20	1	38	<1	<1	<5	<10	<.01	<1



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STANDARD NAME	ELEMENT AU30 UNITS PPB	Ag AgGrav PPM PPM	Cu CuOL PPM PCT	Pb PPM PCT	Pb PPM PCT	Zn PPM PCT	Zn PPM PCT	Zn PPM PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT				
ANALYTICAL BLANK	<5	<0.2	-	<1	-	6	-	-	24	-	-	<1	<1	<1	<0.2	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<.01	<.01		
Number of Analyses	1	1	-	1	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mean Value	3	0.1	-	0.5	-	6	-	-	24	-	-	0.5	0.5	0.5	0.1	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	5	0.2	0.005	1	<.01	2	<.001	<.001	1	<.0001	<.001	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.01	.01	<.01	<.01	<.0001	<.01	
Gannet Standard	1573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD	-	-	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 4	-	0.8	-	281	-	37	-	-	270	-	-	4	39	9	1.1	<5	34	<5	2.65	560	<10	52	71	6	<20	<20	3	0.74	1.18	1.39	0.05	
Number of Analyses	-	1	-	1	-	1	-	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	0.8	-	281	-	37	-	-	270	-	-	4	39	9	1.1	3	34	3	2.65	560	5	52	71	6	10	10	3	0.74	1.18	1.39	0.05	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	0.8	-	290	0.03	33	-	-	255	-	-	4	42	9	0.8	1	30	1	2.40	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	
CANMET CERTIFIED STD	-	-	-	-	-	-	4.25	-	>15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	-	-	-	-	4.25	-	15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	-	-	-	-	4.33	4.33	19.02	19.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01663.0 (COMPLETE)

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PAGE 2B(4/ 6)

PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr
		PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM
ANALYTICAL BLANK		<.01	<1	<1	<2	<1	<1	<5	<10	<.01	<1
Number of Analyses		1	1	1	1	1	1	1	1	1	1
Mean Value		.005	0.5	0.5	1	0.5	0.5	3	5	.005	0.5
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		<.01	.01	.01	.01	.01	.01	.01	.01	<.01	.01
Gannet Standard		-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		0.13	36	3	<2	5	1	<5	<10	<.01	9
Number of Analyses		1	1	1	1	1	1	1	1	1	1
Mean Value		0.13	36	3	1	5	1	3	5	.005	9
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		0.14	39	4	2	7	1	12	1	0.01	8
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT AU30 UNITS PPB	Ag	AgGrav	Cu	CUOL	Pb	Pb	Pb	Zn	Zn	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na
		PPM	PPM	PPM	PCT	PPM	PCT	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT
139560	30	53.1	51.7	370		>10000	1.24		>10000	2.88		2	22	3	171.8	<5	201	210	1.31	138	17	33	324	7	250	<20	8	0.26	0.05	0.24	<.01
Prep Duplicate	38	48.9	51.7	343		>10000	1.26		>10000	2.82		2	21	3	160.8	<5	188	190	1.20	129	13	32	303	6	225	<20	7	0.24	0.05	0.24	<.01
139562	22	23.6	24.5	385		5096	0.50		8167	0.89		2	31	6	57.7	<5	154	81	1.39	57	<10	61	300	10	317	<20	10	0.39	0.02	0.19	<.01
Duplicate	18	23.3		374		5004			8030			2	31	6	56.1	<5	152	76	1.37	56	<10	56	283	9	303	<20	9	0.38	0.02	0.18	<.01
139564	137	>200.0	868.2	3579		>10000		19.25	>10000		39.64	<1	6	2	1906.9	12	1712	>2000	4.17	1058	51	2	29	<1	>2000	<20	6	0.08	<.01	0.02	<.01
Duplicate			890.3																												
139568	43	18.9	22.0	99		5662	0.59		3877	0.38		37	119	12	24.1	<5	391	48	2.51	89	<10	15	101	59	43	<20	5	0.42	0.18	0.52	<.01
Duplicate							0.62			0.39																					
139573	<5	1.9	3.3	11		421	0.05		313	0.01		3	3	<1	1.8	12	101	18	0.67	357	<10	69	<1	2	<20	<20	3	<.01	0.63	>10.00	<.01
Duplicate							0.04			0.01																					
139576	460	166.4	237.1	3297		>10000	4.25		>10000	14.49		11	13	1	<521.7	316	>10000	>2000	>10.00	666	40	<1	47	<1	679	<20	3	0.02	<.01	2.36	<.01
Duplicate			246.0																												
Prep Duplicate	38	48.9	51.7	343		>10000	1.26		>10000	2.82		2	21	3	160.8	<5	188	190	1.20	129	13	32	303	6	225	<20	7	0.24	0.05	0.24	<.01
Duplicate							1.24			2.94																					



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01663.D (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr
		PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM
139560		0.12	15	3	14	<1	<1	<5	<10	<.01	5
Prep Duplicate		0.11	14	3	12	<1	<1	<5	<10	<.01	5
139562		0.20	16	4	5	<1	<1	<5	<10	<.01	6
Duplicate		0.19	15	4	4	<1	<1	<5	<10	<.01	6
139564		0.05	3	1	131	<1	<1	<5	<10	<.01	1
Duplicate											
139568		0.15	11	4	<2	<1	2	<5	<10	<.01	12
Duplicate											
139573		<.01	107	3	<2	<1	5	<5	<10	<.01	<1
Duplicate											
139576		0.02	8	1	47	<1	<1	<5	<10	<.01	<1
Duplicate											
Prep Duplicate		0.11	14	3	12	<1	<1	<5	<10	<.01	5
Duplicate											



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01658.0 (COMPLETE)

DATE RECEIVED: 14-JUL-97 DATE PRINTED: 11-AUG-97 PAGE 1A(1/ 6)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT Au30 UNITS	Ag	AgGrav	Cu	Pb	Pb	Pb	Zn	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga
		PPM	PPM	PPM	PPM	PCT	PCT	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM
139578	22	4.8	3.4	42	437	0.04		799	0.09	18	77	7	4.0	<5	167	18	1.73	237	<10	32	84	40	<20	<20	5	0.37	0.59	1.06	<.01	0.16	17	5	<2
139579	65	>200.0	225.6	878	>10000	2.38		>10000	6.02	2	11	<1	196.5	330	2468	280	>10.00	137	10	<1	97	1	238	28	12	0.02	0.02	0.06	<.01	<.01	1	<1	8
139580	273	>200.0	413.1	1668	>10000	4.95		>10000	13.75	2	9	<1	657.2	423	4464	1555	>10.00	468	41	<1	168	<1	700	151	34	<.01	<.01	0.42	<.01	<.01	1	1	48
139581	62	>200.0	457.8	2231	>10000	6.81		>10000	10.60	<1	5	<1	423.7	690	2103	864	>10.00	297	34	<1	84	<1	239	66	<1	<.01	<.01	0.59	<.01	<.01	2	<1	30
139582	31	124.8	75.1	806	3751	0.48		>10000	3.37	2	7	<1	112.2	280	1530	168	>10.00	418	<10	<1	39	<1	95	<20	1	<.01	0.10	4.43	<.01	<.01	18	<1	<2
139583	663	>200.0	569.4	2182	>10000	9.65		>10000	13.12	4	10	<1	789.6	158	7168	1134	>10.00	845	23	<1	68	<1	1117	170	39	<.01	0.02	2.95	<.01	<.01	12	5	45
139584	1168	>200.0	966.0	2004	>10000		20.44	>10000	12.62	12	7	<1	588.3	210	6182	>2000	>10.00	531	24	<1	62	<1	1129	112	21	<.01	0.02	0.94	<.01	<.01	4	3	33
139585	17	8.7	4.0	20	567	0.06		907	0.11	2	3	<1	5.5	<5	100	22	0.31	305	<10	85	<1	3	<20	<20	3	<.01	1.03	>10.00	<.01	<.01	192	3	<2



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01658.0 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT	Li	Nb	Sc	Ta	Ti	Zr	Sn
		UNITS	PPM	PPM	PPM	PCT	PPM	PPM
139578		1	3	<5	<10	<.01	8	
139579		<1	<1	<5	<10	<.01	9	293
139580		<1	<1	<5	<10	<.01	10	663
139581		<1	<1	<5	<10	<.01	8	222
139582		<1	<1	<5	<10	<.01	7	140
139583		<1	<1	<5	<10	<.01	6	1091
139584		<1	<1	<5	<10	<.01	6	810
139585		<1	5	<5	<10	<.01	<1	



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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM
FA SYNTHETIC STD	-	-	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	7.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET CERTIFIED STD	-	-	-	-	4.29	-	-	>15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	4.29	-	-	15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	4.33	4.33	-	19.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-
BCC GEOCHEM STD 5	-	1.1	-	82	16	-	-	90	-	1	36	16	0.3	<5	14	<5	4.55	666	<10	191	49	119	<20	<20	6	3.09	1.81	1.02	0.05	0.28	35	7	<2
Number of Analyses	-	1	-	1	1	-	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	-	1.1	-	82	16	-	-	90	-	1	36	16	0.3	3	14	3	4.55	666	5	191	49	119	10	10	6	3.09	1.81	1.02	0.05	0.28	35	7	1
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	0.7	-	90	11	-	-	80	-	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4
ANALYTICAL BLANK	<5	0.6	-	<1	5	-	-	<1	-	<1	<1	<1	<0.2	<5	5	<5	<0.01	<1	<10	<1	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<2
Number of Analyses	1	1	-	1	1	-	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	3	0.6	-	0.5	5	-	-	0.5	-	0.5	0.5	0.5	0.1	3	5	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	5	0.2	0.005	1	2	<0.01	<.001	1	<.0001	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01
Gannet Standard	1573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	1573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USDI STD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01658.0 (COMPLETE)

DATE RECEIVED: 14-JUL-97 DATE PRINTED: 11-AUG-97 PAGE 28(4/ 6)

PROJECT: SILVERTIP

STANDARD NAME	ELEMENT	Li	Nb	Sc	Ta	Ti	Zr	Sn
	UNITS	PPM	PPM	PPM	PPM	PCT	PPM	PPM
FA SYNTHETIC STD		-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-
CANMET CERTIFIED STD		-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-
BCC GEOCHEM STD 5		23	10	10	<10	0.21	14	-
Number of Analyses		1	1	1	1	1	1	-
Mean Value		23	10	10	5	0.21	14	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	1	18	1	-	9	-
ANALYTICAL BLANK		<1	<1	<5	<10	<.01	<1	-
Number of Analyses		1	1	1	1	1	1	-
Mean Value		0.5	0.5	3	5	.005	0.5	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		.01	.01	.01	.01	<.01	.01	.005
Gannet Standard		-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-
USDI STD		-	-	-	-	-	-	60
Number of Analyses		-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	60
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	55



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Geochemical Lab Report

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DATE RECEIVED: 14-JUL-97 DATE PRINTED: 11-AUG-97 PAGE 3A(5/ 6)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT Au30 UNITS	Ag AgGrav PPM	Ag Grav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM
139578 Duplicate	22	4.8	3.4	42	437	0.04		799	0.09	18	77	7	4.0	<5	167	18	1.73	237	<10	32	84	40	<20	<20	5	0.37	0.59	1.06	<.01	0.16	17	5	<2
139583 Duplicate	663	>200.0	569.4	2182	>10000	9.65		>10000	13.12	4	10	<1	789.6	158	7168	1134	>10.00	845	23	<1	68	<1	1117	170	39	<.01	0.02	2.95	<.01	<.01	12	5	45



Intertek Testing Services
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**Geochemical
Lab
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SAMPLE NUMBER	ELEMENT UNITS	Li	Nb	Sc	Ta	Ti	Zr	Sn
		PPM	PPM	PPM	PPM	PCT	PPM	PPM
139578	1	3	<5	<10	<.01	8		
Duplicate								
139583	<1	<1	<5	<10	<.01	6	1091	
Duplicate								



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**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.

REPORT: V97-01658.1 (COMPLETE)

DATE RECEIVED: 14-JUL-97

PROJECT: SILVERTIP

DATE PRINTED: 16-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
D2 139579		<10	52.10
D2 139580		<10	96.70
D2 139581		<10	117.00
D2 139582		<10	49.10
D2 139583		<10	32.00
D2 139584		<10	24.10



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STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
CANMET Std CZN-1		<10	94.50
Number of Analyses		1	1
Mean Value		5.0	94.500
Standard Deviation		-	-
Accepted Value		-	-



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01724.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 22-JUL-97 DATE PRINTED: 13-AUG-97 PAGE 1A(1/ 8)

SAMPLE NUMBER	ELEMENT Au30 UNITS PPB	Ag AgGrav PPM PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT
139586	386	182.7	203.5	1028	>10000	2.02	>10000	13.10		<1	51	4	426.9	<5	4530	396	>10.00	784	<10	6	146	8	670	<278	4	0.22	0.03	0.27	<.01	0.12
139587	<5	4.0	4.3	34	485	0.05	230	<0.01		3	26	5	1.2	<5	91	7	1.65	548	<10	54	255	15	<20	<20	6	0.33	0.42	1.11	<.01	0.13
139588	79	2.9	3.4	19	143	0.01	708	0.07		20	55	5	2.7	<5	492	16	3.85	578	<10	28	66	33	<20	<20	1	0.13	0.10	>10.00	<.01	0.06
139589	3051	>200.0	336.0	1380	>10000	8.10	>10000		16.04	2	12	3	543.8	<5	5239	1870	8.72	583	<10	2	42	3	1904	<220	62	<.01	0.03	1.89	<.01	<.01
139590	3752	>200.0	320.4	1747	>10000	8.50	>10000	12.58		<1	14	4	597.1	<5	7571	>2000	>10.00	780	<10	3	94	7	1909	<20	77	0.04	0.09	3.07	<.01	0.02
139591	148	21.9	24.4	122	2993	0.45	3116	0.39		3	3	<1	14.2	<5	983	59	1.49	630	<10	51	2	4	34	<20	<1	<.01	0.12	>10.00	<.01	<.01
139592	1300	>200.0	228.2	958	>10000	4.92	>10000	4.90		2	5	2	170.7	<5	5748	1316	>10.00	424	<10	2	33	3	1836	<67	<1	<.01	0.05	3.75	<.01	<.01
139593	115	3.1	4.0	13	505	0.08	1618	0.24		4	5	<1	8.0	<5	372	40	1.16	354	<10	27	1	5	<20	<20	<1	0.01	0.23	>10.00	<.01	<.01
139594	203	2.9	3.9	16	488	0.07	2893	0.36		2	1	<1	17.0	<5	898	16	0.86	388	<10	85	<1	2	<20	<20	<1	<.01	0.18	>10.00	<.01	<.01
139595	2405	>200.0	1088.4	1266	>10000		29.88	>10000	8.58	2	5	3	<358.0	<5	>10000	>2000	7.04	390	<10	6	21	<1	>2000	<140	24	<.01	0.03	4.75	<.01	<.01
139596	29	14.7	16.4	26	2656	0.53	2031	0.33		2	1	<1	10.4	<5	171	83	0.17	200	<10	39	1	2	45	<20	<1	<.01	0.17	>10.00	<.01	<.01
139597	26	0.7	1.3	1	71	<.01	108	<0.01		1	2	<1	0.5	<5	43	<5	0.18	192	<10	74	<1	8	<20	<20	<1	<.01	0.15	>10.00	<.01	<.01
139598	267	5.8	13.2	7	622	0.09	296	0.02		3	25	<1	0.6	<5	634	60	>10.00	240	<10	9	6	3	<20	<20	<1	<.01	0.16	8.33	<.01	<.01



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01724.0 (COMPLETE)

DATE RECEIVED: 22-JUL-97

DATE PRINTED: 13-AUG-97

PROJECT: SILVERTIP
PAGE 1B(2/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Sn PPM
139586		7	5	93	1	4	<5	<10	<.01	5	
139587		50	4	<2	<1	2	<5	<10	<.01	9	
139588		331	9	<2	<1	<1	<5	<10	<.01	4	
139589		12	7	58	<1	7	<5	<10	<.01	<1	2550s
139590		25	10	84	<1	<1	<5	<10	<.01	6	1951
139591		149	3	2	<1	1	<5	<10	<.01	<1	
139592		14	1	26	<1	6	<5	<10	<.01	<1	
139593		176	2	<2	<1	1	<5	<10	<.01	<1	
139594		141	3	3	<1	<1	<5	<10	<.01	<1	
139595		24	3	34	<1	5	<5	<10	<.01	<1	2164
139596		56	1	<2	<1	7	<5	<10	<.01	<1	
139597		134	2	<2	<1	<1	<5	<10	<.01	<1	
139598		53	2	5	<1	5	<5	<10	<.01	<1	



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Geochemical Lab Report

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PROJECT: SILVERTIP
DATE RECEIVED: 22-JUL-97 DATE PRINTED: 13-AUG-97 PAGE 2A(3/ 8)

STANDARD NAME	ELEMENT UNITS	Au30 PPB	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	
ANALYTICAL BLANK		5	<0.2	-	<1	<2	-	-	<1	-	-	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	
Number of Analyses		1	1	-	1	1	-	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		5	0.1	-	0.5	1	-	-	0.5	-	-	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.2	0.005	1	2	<.01	<.001	1	<.0001	<.001	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.005	.01	<.01	<.01	<.0001	<.01	<.01	
Gannet Standard		393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD		-	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD		-	-	-	-	4.32	-	-	>15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	4.32	-	-	15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	4.33	4.33	-	19.02	19.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02
BCC GEOCHEM STD 6		-	0.3	-	134	16	-	-	125	-	-	3	132	29	<0.2	<5	125	<5	6.76	1308	<10	5	159	43	<20	<20	<1	1.81	2.39	3.35	0.01	0.04	
Number of Analyses		-	1	-	1	1	-	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	0.3	-	134	16	-	-	125	-	-	3	132	29	0.1	3	125	3	6.76	1308	5	5	159	43	10	10	0.5	1.81	2.39	3.35	0.01	0.04	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	0.2	-	140	18	-	-	140	-	-	4	135	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	
USDI STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01724.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 22-JUL-97 DATE PRINTED: 13-AUG-97 PAGE 2B(4/ 8)

STANDARD NAME	ELEMENT	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM
ANALYTICAL BLANK		<1	<1	<2	<1	<1	<5	<10	<.01	<1	-
Number of Analyses		1	1	1	1	1	1	1	1	1	-
Mean Value		0.5	0.5	1	0.5	0.5	3	5	.005	0.5	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		.01	.01	.01	.01	.01	.01	.01	<.01	.01	.005
Gannet Standard		-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 6		77	3	6	20	<1	8	<10	<.01	5	-
Number of Analyses		1	1	1	1	1	1	1	1	1	-
Mean Value		77	3	6	20	0.5	8	5	.005	5	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		70	3	-	24	2	6	1	.003	5	5
USD1 STD		-	-	-	-	-	-	-	-	-	57
Number of Analyses		-	-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	-	57
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	55



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01724.0 (COMPLETE)

DATE RECEIVED: 22-JUL-97 DATE PRINTED: 13-AUG-97 PAGE 3A(5/ 8)

PROJECT: SILVERTIP

STANDARD	ELEMENT	Au30	Ag	AgGrav	Cu	Pb	Pb	Pb	Zn	Zn	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K			
NAME	UNITS	PPB	PPM	PPM	PPM	PPM	PCT	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT		
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services
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**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01724.D (COMPLETE)

DATE RECEIVED: 22-JUL-97 DATE PRINTED: 13-AUG-97 PAGE 3B(6/ 8)

PROJECT: SILVERTIP

STANDARD	ELEMENT	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	Zr	Sn
NAME	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM
Lithium Ore		-	-	-	-	-	-	-	-	-	1932
Number of Analyses		-	-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	-	1932
Standard Deviation		-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	1900



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01724.0 (COMPLETE)

DATE RECEIVED: 22-JUL-97 DATE PRINTED: 13-AUG-97 PAGE 4A(7/ 8)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT Au30 UNITS PPB	Ag AgGrav PPM PPM	Cu PPM	Pb PPM	Pb PCT	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	
139586 Duplicate	386	182.7 203.5	1028	>10000	2.02		>10000	13.10		<1	51	4	426.9	<5	4530	396	>10.00	784	<10	6	146	8	670	<278	4	0.22	0.03	0.27	<.01	0.12	
					2.05			13.21																							
139587 Prep Duplicate	<5 6	4.0 3.8	4.3 4.8	34 38	485 500	0.05 0.05		230 198	<0.01 <0.01		3 3	26 30	5 6	1.2 1.1	<5 <5	91 100	7 8	1.65 1.90	548 641	<10 <10	54 59	255 280	15 15	<20 <20	<20 <20	6 6	0.33 0.32	0.42 0.48	1.11 1.31	<.01 <.01	0.13 0.13
139590 Duplicate	3752 3747	>200.0 >200.0	320.4 1530	1747 >10000	8.50 >10000		>10000 >10000	12.58		<1 <1	14 12	4 3	597.1 548.8	<5 <5	7571 6873	>2000 >2000	>10.00 >10.00	780 717	<10 <10	3 2	94 78	7 5	1909 1637	<20 <20	77 62	0.04 0.03	0.09 0.07	3.07 2.88	<.01 <.01	0.02 0.02	
139591 Duplicate	148	21.9 24.5	24.4	122	2993	0.45		3116	0.39		3 3	<1	14.2	<5	983	59	1.49	630	<10	51	2	4	34	<20	<1	<.01	0.12	>10.00	<.01	<.01	
139595 Duplicate	2405	>200.0	1088.4	1266	>10000		29.88	>10000	8.58 8.60		2 5	3	<358.0	<5	>10000	>2000	7.04	390	<10	6	21	<1	>2000	<140	24	<.01	0.03	4.75	<.01	<.01	



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Geochemical Lab Report

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REPORT: V97-01724.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 22-JUL-97 DATE PRINTED: 13-AUG-97 PAGE 4B(8/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Sn PPM
139586 Duplicate		7	5	93	1	4	<5	<10	<.01	5	
139587 Prep Duplicate		50	4	<2	<1	2	<5	<10	<.01	9	
		56	4	<2	<1	2	<5	<10	<.01	10	
139590 Duplicate		25	10	84	<1	<1	<5	<10	<.01	6	1951
		21	8	66	<1	<1	<5	<10	<.01	5	
139591 Duplicate		149	3	2	<1	1	<5	<10	<.01	<1	
139595 Duplicate		24	3	34	<1	5	<5	<10	<.01	<1	2164



Intertek Testing Services
Bondar Clegg

**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01724.1 (COMPLETE)

DATE RECEIVED: 22-JUL-97

PROJECT: SILVERTIP

DATE PRINTED: 8-OCT-97 PAGE 1 OF 2

SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
D2 139586		1.1	122.00
D2 139587		<0.5	0.29
D2 139588		<0.5	0.20
D2 139589		2.0	23.20
D2 139590		1.5	16.40
D2 139591		<0.5	4.69
D2 139592		1.9	11.30
D2 139593		<0.5	0.40
D2 139594		<0.5	0.36
D2 139595		4.6	13.40
D2 139596		<0.5	0.99
D2 139597		<0.5	0.11
D2 139598		<0.5	0.12



Intertek Testing Services
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**Geochemical
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DATE RECEIVED: 22-JUL-97

PROJECT: SILVERTIP

DATE PRINTED: 8-OCT-97 PAGE 2 OF 2

SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139597		<0.5	0.11
Duplicate		<0.5	0.11



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01860.D (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 30-JUL-97 DATE PRINTED: 14-AUG-97 PAGE 1A(1/ 6)

SAMPLE NUMBER	ELEMENT Au30 UNITS	Ag	AgGrav	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
139652	55	20.4	22.1	230	3108	>10000	4	46	8	59.5	56	1319	91	>10.00	176	<10	5	255	41	111	<20	<1	0.40	0.05	0.77	<.01	0.15	15	4	7	1	<1	<5	<10	<.01
139653	130	19.7	20.3	489	3038	>10000	<1	19	5	178.3	30	3339	65	>10.00	274	<10	3	103	8	230	<20	<1	0.21	0.04	0.30	<.01	0.08	5	1	16	<1	<1	<5	<10	<.01
139599	166	157.5	187.7	1057	>10000	>10000	<1	16	4	503.3	193	1861	590	>10.00	400	<10	4	132	5	596	<20	6	0.15	<.01	0.14	<.01	0.09	6	3	41	<1	<1	<5	<10	<.01
139600	623	51.9	57.0	320	>10000	>10000	<1	41	6	116.8	<5	2336	74	>10.00	338	<10	8	142	10	153	<20	2	0.21	0.11	1.27	<.01	0.12	39	5	10	<1	<1	<5	<10	<.01
139601	116	119.8	128.7	425	>10000	>10000	<1	41	18	133.7	9	637	103	5.97	159	<10	15	201	9	303	<20	4	0.21	0.01	0.13	<.01	0.14	7	2	12	<1	<1	<5	<10	<.01
139602	30	41.2	44.4	262	8794	>10000	15	63	5	46.3	<5	172	74	3.89	108	<10	23	207	29	183	<20	2	0.18	0.03	0.40	<.01	0.10	30	4	4	1	<1	<5	<10	<.01
139603	115	15.4	17.5	59	1206	3717	27	77	9	15.4	<5	686	44	3.56	1836	<10	11	73	24	35	<20	2	0.24	0.12	>10.00	<.01	0.09	116	7	<2	1	<1	<5	<10	<.01
139604	52	62.5	71.1	272	3163	>10000	12	25	2	103.9	46	312	101	3.42	2254	<10	20	47	8	119	<20	4	0.05	0.08	>10.00	<.01	0.02	106	6	4	<1	<1	<5	<10	<.01
139605	12	5.8	6.1	17	656	1798	1	3	<1	5.4	<5	53	9	0.31	3912	<10	40	<1	7	<20	<20	3	<.01	0.11	>10.00	<.01	<.01	196	5	<2	<1	<1	<5	<10	<.01
139606	<5	<0.2	<0.7	<1	36	47	3	3	<1	<0.2	<5	<5	<5	2.34	167	<10	32	<1	2	<20	<20	<1	<.01	0.19	>10.00	<.01	<.01	187	2	<2	<1	<1	<5	<10	<.01
139607	<5	<0.2	<0.7	<1	141	8708	1	2	<1	17.6	<5	<5	<5	2.90	141	<10	35	1	2	<20	<20	<1	<.01	0.31	>10.00	<.01	<.01	244	3	<2	<1	<1	<5	<10	<.01
139608	<5	<0.2	<0.7	4	163	753	<1	21	<1	1.6	<5	63	14	8.46	1293	<10	20	2	2	<20	<20	<1	0.01	0.44	>10.00	<.01	<.01	111	2	<2	<1	<1	<5	<10	<.01
139651	<5	0.5	<0.7	2	122	37	<1	<1	<1	<0.2	<5	<5	<5	0.31	332	<10	12	<1	3	<20	<20	<1	0.05	8.92	>10.00	0.01	<.01	101	2	<2	6	<1	<5	<10	<.01



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01860.0 (COMPLETE)

DATE RECEIVED: 30-JUL-97 DATE PRINTED: 14-AUG-97 PROJECT: SILVERTIP
PAGE 18(2/ 6)

SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT
139652	7	0.30	1.52		
139653	4	0.31	6.18		
139599	5	2.39	16.02		
139600	12	1.30	2.72		
139601	6	2.71	3.13		
139602	13	0.85	1.04		
139603	8	0.12	0.38		
139604	2	0.30	2.75		
139605	<1	0.07	0.18		
139606	<1	<.01	<0.01		
139607	<1	0.02	0.91		
139608	<1	0.02	0.09		
139651	<1	0.01	<0.01		



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01860.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 30-JUL-97 DATE PRINTED: 14-AUG-97 PAGE 2A(3/ 6)

STANDARD NAME	ELEMENT Au30 UNITS PPB	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	
ANALYTICAL BLANK	<5	<0.2	-	<1	<2	1	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	
Number of Analyses	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	3	0.1	-	0.5	1	1	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	5	0.2	0.005	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.01	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	<.01	
Gannet Standard	2459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	2459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4	-	1.0	-	268	33	240	2	39	8	0.7	<5	26	<5	2.87	539	<10	54	66	7	<20	<20	3	0.74	1.25	1.45	0.05	0.13	38	3	<2	6	<1	<5	<10	<.01	
Number of Analyses	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	-	1.0	-	268	33	240	2	39	8	0.7	3	26	3	2.87	539	5	54	66	7	10	10	3	0.74	1.25	1.45	0.05	0.13	38	3	1	6	0.5	3	5	.005	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	0.8	-	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1	0.01	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01860.0 (COMPLETE)

DATE RECEIVED: 30-JUL-97

DATE PRINTED: 14-AUG-97

PAGE 2B(4/ 6)

PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT
ANALYTICAL BLANK		<1	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.5	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		.01	<.01	<.0001	<.001
Gannet Standard		-	-	-	-
Number of Analyses		-	-	-	-
Mean Value		-	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	-
CANMET CERTIFIED STD		- 4.23	>15.00	-	-
Number of Analyses		- 1	1	-	-
Mean Value		- 4.23	15.00	-	-
Standard Deviation		- -	-	-	-
Accepted Value		- 4.33	19.02	19.02	-
BCC GEOCHEM STD 4		10	-	-	-
Number of Analyses		1	-	-	-
Mean Value		10	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		8	-	-	-



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01860.0 (COMPLETE)

DATE RECEIVED: 30-JUL-97 DATE PRINTED: 14-AUG-97 PAGE 3A(5/ 6)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT	Au30	Ag	AgGrav	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT
139652		55	20.4	22.1	230	3108	>10000	4	46	8	59.5	56	1319	91	>10.00	176	<10	5	255	41	111	<20	<1	0.40	0.05	0.77	<.01	0.15	15	4	7	1	<1	<5	<10	<.01
Duplicate		46	19.5		230	3183	>10000	4	45	8	58.2	54	1245	89	>10.00	175	<10	5	252	44	106	<20	<1	0.41	0.06	0.77	<.01	0.16	14	4	7	1	<1	<5	<10	<.01
139602		30	41.2	44.4	262	8794	>10000	15	63	5	46.3	<5	172	74	3.89	108	<10	23	207	29	183	<20	2	0.18	0.03	0.40	<.01	0.10	30	4	4	1	<1	<5	<10	<.01
Duplicate				43.6																																
139606		<5	<0.2	<0.7	<1	36	47	3	3	<1	<0.2	<5	<5	<5	2.34	167	<10	32	<1	2	<20	<20	<1	<.01	0.19	>10.00	<.01	<.01	187	2	<2	<1	<1	<5	<10	<.01
Prep Duplicate		<5	<0.2	<0.7	<1	27	33	3	3	<1	<0.2	<5	<5	<5	3.03	142	<10	36	<1	2	<20	<20	<1	<.01	0.25	>10.00	<.01	<.01	207	2	<2	<1	<1	<5	<10	<.01
Duplicate																																				



Intertek Testing Services

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Geochemical Lab Report

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REPORT: V97-01860.D (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 30-JUL-97 DATE PRINTED: 14-AUG-97 PAGE 3B(6/ 6)

SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT
139652	7	0.30		1.52	
Duplicate	8	0.30		1.54	
139602	13	0.85		1.04	
Duplicate					
139606	<1	<.01	<0.01		
Prep Duplicate	<1	<.01	0.01		
Duplicate		<.01	<0.01		



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01916.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 05-AUG-97 DATE PRINTED: 19-AUG-97 PAGE 1A(1/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
139609	<5	1.7	1.4	12	100	25	3	12	2	<0.2	5	71	<5	1.68	20	<10	170	345	6	<20	<20	4	0.15	0.02	<0.01	<0.01	0.27	10	<1	<2	2	<1	<5	<10	
139610	<5	2.1	1.6	19	80	25	3	11	2	0.3	6	131	<5	2.79	19	<10	185	333	9	<20	<20	7	0.22	0.03	0.01	<0.01	0.49	20	<1	3	3	<1	<5	<10	
139611	<5	<0.7	<0.2	1	11	31	2	1	<1	<0.2	<5	<5	<5	0.38	352	<10	23	2	3	<20	<20	2	0.07	8.72	>10.00	0.01	0.01	108	2	<2	6	6	<5	<10	
139612	<5	13.1	9.2	1013	1283	658	55	26	6	4.8	309	1360	69	>10.00	69	<10	157	138	123	30	<20	<1	0.60	0.14	0.10	<0.01	0.36	7	3	10	14	14	<5	<10	
139613	<5	3.2	1.5	60	242	77	12	15	2	0.7	11	169	10	2.13	29	<10	382	259	68	<20	<20	5	0.31	0.05	0.14	<0.01	0.29	15	1	2	4	9	<5	<10	
139614	6	2.5	2.3	144	144	128	14	14	2	1.7	31	431	15	4.43	30	<10	182	196	76	<20	<20	6	0.27	0.03	<0.01	<0.01	0.41	21	2	4	4	9	<5	<10	
139615	<5	2.7	1.2	181	323	76	12	14	2	0.8	40	225	10	3.17	17	<10	558	197	69	<20	<20	7	0.44	0.04	<0.01	<0.01	0.24	9	1	3	4	9	<5	<10	
139616	8	<0.7	0.3	182	68	48	19	16	2	0.5	6	73	7	2.80	17	<10	1110	231	69	<20	<20	7	0.97	0.05	<0.01	0.01	0.24	15	2	3	5	10	<5	<10	
139617	<5	<0.7	0.4	45	44	413	2	19	4	3.9	<5	12	<5	0.23	312	<10	818	3	14	<20	<20	3	0.04	0.14	>10.00	<0.01	<0.01	376	8	<2	<1	7	<5	<10	
139618	7	15.0	9.6	297	998	7066	3	70	7	18.2	843	677	57	>10.00	376	<10	803	4	17	<20	<20	4	0.16	0.05	7.61	<0.01	0.04	23	6	35	1	<1	<5	<10	
139619	<5	<0.7	0.7	2	7	143	2	5	1	1.0	7	6	<5	0.16	266	<10	133	<1	3	<20	<20	2	0.01	1.72	>10.00	<0.01	<0.01	141	3	<2	<1	5	<5	<10	
139620	<5	1.8	1.2	135	25	606	1	14	3	11.5	12	53	<5	0.51	774	<10	131	1	3	<20	<20	2	0.05	0.20	>10.00	<0.01	0.01	172	4	<2	<1	5	<5	<10	
139621	<5	2.4	1.8	158	305	483	26	38	4	2.1	41	312	40	5.86	86	<10	624	18	86	<20	<20	5	0.78	0.06	0.12	<0.01	0.12	23	6	7	2	11	<5	<10	
139622	<5	2.8	1.6	523	368	1702	40	105	10	7.8	<5	977	49	>10.00	655	<10	136	12	195	<20	<20	10	1.23	0.02	0.03	<0.01	0.15	68	11	24	<1	22	11	<10	
139623	19	376.5	>200.0	1555	>10000	3063	6	26	5	4.6	831	676	672	>10.00	191	25	51	48	97	539	<20	20	0.81	0.02	0.02	<0.01	0.13	128	8	34	4	10	<5	<10	
139624	34	25.9	17.3	2406	7608	3875	7	61	68	9.4	1426	1263	82	>10.00	2666	12	170	37	28	102	<20	19	1.34	0.02	0.03	<0.01	0.07	16	13	58	3	<1	5	<10	
139625	17	26.5	18.4	989	7318	7371	8	273	155	19.4	50	674	56	>10.00	7865	<10	468	11	31	36	<20	14	4.70	0.05	0.09	<0.01	0.10	27	39	15	10	7	<5	<10	
139626	12	28.5	22.0	1276	7963	>10000	4	690	130	26.7	23	316	20	6.16	11281	<10	1024	10	19	<20	<20	13	7.34	0.05	0.20	<0.01	0.08	17	86	6	16	8	<5	<10	
139627	18	40.6	29.4	2366	5314	>10000	4	1706	112	75.1	5	318	28	6.39	15666	<10	841	11	33	38	20	49	3.37	0.11	0.27	0.02	0.11	22	810	4	10	7	<5	<10	
139628	10	19.7	15.2	1189	2767	>10000	5	524	70	43.7	<5	369	37	>10.00	7689	<10	649	24	30	<20	<20	21	2.25	0.11	0.15	0.01	0.14	20	119	6	9	4	<5	<10	
139629	10	15.5	10.9	860	2330	>10000	3	921	41	55.7	<5	184	30	5.76	7745	<10	1238	33	42	21	<20	36	2.84	0.16	0.32	0.01	0.21	27	284	6	9	8	<5	<10	
139630	6	13.5	9.4	857	2038	>10000	4	807	36	48.2	<5	181	29	6.02	6337	<10	1146	29	45	<20	<20	36	2.72	0.18	0.30	0.01	0.26	28	258	5	10	8	<5	<10	
139631	<5	<0.7	0.2	3	27	52	2	2	<1	0.2	<5	<5	<5	0.40	387	<10	16	2	3	<20	<20	2	0.08	8.41	>10.00	0.01	0.01	97	3	<2	5	6	<5	<10	
139632	15	13.0	9.1	1254	3581	>10000	3	747	63	52.1	7	225	22	6.83	6641	<10	691	41	31	<20	<20	24	3.36	0.14	0.36	<0.01	0.16	23	168	9	12	6	<5	<10	
139633	10	10.7	7.4	392	2693	>10000	4	640	45	46.8	<5	231	43	7.91	5891	<10	642	20	36	26	<20	31	1.36	0.14	0.73	0.01	0.14	24	120	6	8	5	6	<10	
139634	<5	1.8	1.1	14	73	985	1	26	1	10.9	6	16	<5	0.38	791	<10	53	5	4	<20	<20	2	0.08	0.14	>10.00	<0.01	0.02	115	7	<2	<1	5	<5	<10	
139635	13	27.7	22.5	1482	6415	5891	13	448	132	15.7	62	300	46	8.19	6708	<10	363	79	59	36	339	11	2.37	0.09	0.70	0.03	0.27	39	49	9	9	9	<5	<10	
139636	<5	<0.7	0.4	3	13	101	1	3	<1	0.8	5	15	<5	0.16	1274	<10	51	8	2	<20	<20	2	0.02	0.11	>10.00	<0.01	<0.01	121	3	<2	<1	5	<5	<10	



Intertek Testing Services

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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PPM
139609		<.01	5	<.01	<0.01	
139610		<.01	10	<.01	<0.01	
139611		<.01	<1	<.01	<0.01	
139612		<.01	14	0.15	0.07	
139613		<.01	8	0.02	<0.01	
139614		<.01	10	<.01	<0.01	
139615		<.01	9	0.03	<0.01	
139616		<.01	12	<.01	<0.01	
139617		<.01	<1	<.01	0.05	
139618		<.01	14	0.18	1.77	
139619		<.01	<1	<.01	0.01	
139620		<.01	<1	<.01	0.08	
139621		<.01	7	0.03	0.04	
139622		<.01	14	0.06	0.26	55
139623		<.01	13	6.57	0.43	842
139624		<.01	14	1.17	0.65	472
139625		<.01	12	0.93	1.90	91
139626		<.01	7	0.88	1.17	46
139627		<.01	10	0.60	5.74	68
139628		<.01	13	0.32	1.83	31
139629		<.01	12	0.28	3.88	42
139630		<.01	10	0.23	3.45	40
139631		<.01	<1	<.01	<0.01	
139632		<.01	12	0.40	2.15	26
139633		<.01	8	0.30	2.29	45
139634		<.01	<1	0.01	0.14	8
139635		<.01	10	0.73	0.86	78
139636		<.01	<1	<.01	<0.01	10



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STANDARD NAME	ELEMENT UNITS	Au3D PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	11	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		2	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	-	0.1	0.5	1	11	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.005	1	1	.01	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	
Gannet Standard	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GOLD STD 90-1	-	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	6320	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 4	-	-	1.2	258	29	236	2	36	9	1.0	<5	28	<5	2.75	556	<10	55	69	7	<20	<20	4	0.78	1.16	1.38	0.05	0.13	37	3	<2	6	2	<5	<10		
Number of Analyses	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	-	1.2	258	29	236	2	36	9	1.0	3	28	3	2.75	556	5	55	69	7	10	10	4	0.78	1.16	1.38	0.05	0.13	37	3	1	6	2	3	5		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	-	-	0.8	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1		
Gannet Standard	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<.01	<1	-	-	-
ANALYTICAL BLANK		-	-	-	-	-
Number of Analyses		1	1	-	-	-
Mean Value		.005	0.5	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		<.01	.01	<.01	<.0001	.005

Gannet Standard		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-

BCC GOLD STD 90-1		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-

BCC GEOCHEM STD 4		<.01	11	-	-	-
Number of Analyses		1	1	-	-	-
Mean Value		.005	11	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		0.01	8	-	-	5

Gannet Standard		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-



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STANDARD NAME	ELEMENT	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM		
FA SYNTHETIC STD		-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USD1 STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Zn PCT	Sn PPM
FA SYNTHETIC STD		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-
CANMET CERTIFIED STD		-	-	4.34	>15.00	-
Number of Analyses		-	-	1	1	-
Mean Value		-	-	4.34	15.00	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	4.33	19.02	-
USDI STD		-	-	-	-	58
Number of Analyses		-	-	-	-	1
Mean Value		-	-	-	-	58
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	55
Lithium Ore		-	-	-	-	1830
Number of Analyses		-	-	-	-	1
Mean Value		-	-	-	-	1830
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	1900



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SAMPLE NUMBER	ELEMENT	AL30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta
		UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
139609 Duplicate		<5	1.7	1.4	12	100	25	3	12	2	<0.2	5	71	<5	1.68	20	<10	170	345	6	<20	<20	4	0.15	0.02	<0.01	<.01	0.27	10	<1	<2	2	<1	<5	<10
139614 Duplicate		6	2.5 3.4	2.3	144	144	128	14	14	2	1.7	31	431	15	4.43	30	<10	182	196	76	<20	<20	6	0.27	0.03	<0.01	<.01	0.41	21	2	4	4	9	<5	<10
139615 Duplicate		<5	2.7	1.2	181	323	76	12	14	2	0.8	40	225	10	3.17	17	<10	558	197	69	<20	<20	7	0.44	0.04	<0.01	<.01	0.24	9	1	3	4	9	<5	<10
		<5		1.2	181	322	87	11	14	2	0.9	39	220	10	3.14	21	<10	579	193	64	<20	<20	7	0.41	0.04	<0.01	<.01	0.23	9	1	3	4	8	<5	<10
139618 Duplicate		7	15.0	9.6	297	998	7066	3	70	7	18.2	843	677	57	>10.00	376	<10	803	4	17	<20	<20	4	0.16	0.05	7.61	<.01	0.04	23	6	35	1	<1	<5	<10
139623 Duplicate		19	376.5	>200.0	1555	>10000	3063	6	26	5	4.6	831	676	672	>10.00	191	25	51	48	97	539	<20	20	0.81	0.02	0.02	<.01	0.13	128	8	34	4	10	<5	<10
139626 Duplicate		12	28.5 28.0	22.0	1276	7963	>10000	4	690	130	26.7	23	316	20	6.16	11281	<10	1024	10	19	<20	<20	13	7.34	0.05	0.20	<.01	0.08	17	86	6	16	8	<5	<10
139628 Prep Duplicate		10	19.7	15.2	1189	2767	>10000	5	524	70	43.7	<5	369	37	>10.00	7689	<10	649	24	30	<20	<20	21	2.25	0.11	0.15	0.01	0.14	20	119	6	9	4	<5	<10
Duplicate		11	16.4	12.0	1122	2806	>10000	6	476	58	39.0	<5	420	42	>10.00	6817	<10	699	20	37	<20	<20	24	2.38	0.13	0.19	0.01	0.23	21	106	7	10	6	<5	<10
139632 Duplicate		15	13.0	9.1	1254	3581	>10000	3	747	63	52.1	7	225	22	6.83	6641	<10	691	41	31	<20	<20	24	3.36	0.14	0.36	<.01	0.16	23	168	9	12	6	<5	<10
				8.9	1212	3453	>10000	3	728	62	50.5	5	215	20	6.38	6423	<10	663	40	28	<20	<20	23	3.20	0.13	0.34	<.01	0.15	21	163	8	11	6	<5	<10
139633 Duplicate		10	10.7	7.4	392	2693	>10000	4	640	45	46.8	<5	231	43	7.91	5891	<10	642	20	36	26	<20	31	1.36	0.14	0.73	0.01	0.14	24	120	6	8	5	6	<10
Prep Duplicate		11	16.4	12.0	1122	2806	>10000	6	476	58	39.0	<5	420	42	>10.00	6817	<10	699	20	37	<20	<20	24	2.38	0.13	0.19	0.01	0.23	21	106	7	10	6	<5	<10
Duplicate		10	15.9																																



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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PPM
139609		<.01	5	<.01	<0.01	
Duplicate				<.01	<0.01	
139614		<.01	10	<.01	<0.01	
Duplicate						
139615		<.01	9	0.03	<0.01	
Duplicate		<.01	9			
139618		<.01	14	0.18	1.77	
Duplicate				0.18	1.82	
139623		<.01	13	6.57	0.43	842
Duplicate				6.30	0.44	
139626		<.01	7	0.88	1.17	46
Duplicate						
139628		<.01	13	0.32	1.83	31
Prep Duplicate		<.01	12	0.33	1.77	33
Duplicate				0.31	1.83	26
139632		<.01	12	0.40	2.15	26
Duplicate		<.01	12			
139633		<.01	8	0.30	2.29	45
Duplicate				0.31	2.25	
Prep Duplicate		<.01	12	0.33	1.77	33
Duplicate						



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139622		0.7	2.51
139623		0.9	12.80
139624		0.8	71.70
139625		<.5	10.70
139626		<.5	5.06
139627		<.5	1.60
139628		<.5	0.76
139629		0.5	1.93
139630		<.5	2.03
139632		<.5	10.20
139633		<.5	1.40
139634		<.5	<0.01
139635		0.5	2.89
139636		<.5	<0.01



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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
CANMET STD SY-3		1.1	0.05
Number of Analyses		1	1
Mean Value		1.1	0.05
Standard Deviation		-	-
Accepted Value		-	-



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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu CuOL PPM	Pb PCT	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
139637	<5	1.3	0.9	303	142	416	12	22	7	1.4	<5	292	8	3.92	54	<10	1200	75	74	<20	<20	11	0.70	0.03	<0.01	<0.01	0.13	16	5	4	3	9	<5	
139638	8	1.4	1.3	385	158	698	10	72	10	2.0	<5	347	13	4.82	86	<10	1205	62	94	<20	<20	7	3.66	0.03	0.02	<0.01	0.13	27	4	5	3	14	6	
139639	<5	4.7	4.2	890	105	1235	4	413	978	8.0	<5	118	<5	0.72	7852	<10	1717	9	60	<20	<20	<1	>10.00	<0.01	0.06	<0.01	0.05	8	4	<2	13	19	13	
139640	<5	1.5	1.5	697	13	1017	3	304	890	7.4	<5	65	<5	0.41	5908	<10	1288	4	35	<20	<20	<1	>10.00	<0.01	0.08	0.01	0.03	6	2	<2	6	17	18	
139641	<5	2.1	1.7	872	16	1599	3	394	936	9.9	<5	106	<5	1.34	6384	<10	>2000	6	48	<20	<20	<1	>10.00	0.02	0.12	<0.01	0.04	9	3	<2	9	19	29	
139642	<5	1.7	1.6	677	10	1145	2	335	669	7.2	<5	41	<5	0.39	4590	<10	1602	2	18	<20	<20	<1	>10.00	<0.01	0.12	<0.01	0.03	7	1	<2	7	17	17	
139643	<5	8.0	7.1	1261	21	1986	3	600	823	19.5	<5	60	<5	1.97	8734	<10	1736	2	24	<20	<20	<1	>10.00	0.01	0.15	<0.01	0.05	10	3	<2	17	15	<5	
139644	<5	7.2	6.6	1248	19	2342	1	513	753	19.3	<5	34	<5	0.60	8222	<10	1035	1	14	<20	<20	<1	>10.00	0.01	0.19	<0.01	0.05	15	3	<2	16	15	<5	
139645	<5	7.7	6.0	2295	84	4527	1	806	411	31.1	<5	35	<5	0.88	9024	<10	828	3	16	<20	<20	6	>10.00	0.03	0.24	<0.01	0.09	18	59	<2	21	14	<5	
139646	<5	8.5	7.6	2468	21	4397	1	821	213	42.8	<5	16	<5	0.14	9961	<10	788	1	7	<20	<20	<1	>10.00	0.01	0.25	<0.01	0.06	13	5	<2	30	14	<5	
139647	<5	23.1	13.7	2534	119	4036	2	868	690	48.7	<5	22	<5	0.30	12859	<10	1053	2	11	<20	<20	1	>10.00	0.02	0.26	0.01	0.08	16	15	<2	26	14	<5	
139648	<5	8.8	7.4	3131	1171	6420	5	651	44	40.9	<5	244	12	5.20	8178	<10	621	4	41	79	<20	4	>10.00	0.05	0.36	0.01	0.09	18	15	5	25	14	<5	
139649	<5	12.4	9.2	7118	1115	>10000	<1	2115	26	71.4	<5	51	<5	1.64	8315	<10	1086	5	29	<20	<20	18	9.79	0.14	1.28	0.02	0.14	38	224	<2	19	12	<5	
139650	<5	5.8	4.9	2277	69	4775	1	767	442	31.2	<5	32	<5	0.70	8674	<10	724	2	15	<20	<20	4	>10.00	0.03	0.25	<0.01	0.09	17	37	<2	20	14	<5	
139654	<5	3.0	2.4	465	98	3219	3	130	2	11.4	12	8	<5	0.60	612	<10	209	1	6	<20	<20	3	0.21	0.51	>10.00	<0.01	0.02	201	17	<2	1	6	<5	
139655	<5	<0.7	0.3	7	19	25	2	2	<1	<0.2	<5	<5	<5	0.36	419	<10	19	2	3	<20	<20	2	0.08	9.16	>10.00	0.01	0.01	105	3	<2	5	7	<5	
139656	25	12.3	8.9	502	319	4688	3	190	14	91.4	12	346	36	5.84	1809	<10	816	5	15	<20	<20	5	0.33	1.57	>10.00	<0.01	0.08	82	34	<2	3	5	<5	
139657	<5	5.5	4.1	60	119	1986	1	83	8	61.6	<5	65	7	1.51	1479	<10	450	2	7	<20	<20	5	0.19	0.52	>10.00	<0.01	0.05	154	15	<2	2	6	<5	
139658	<5	4.8	2.3	387	128	>10000	<1	206	21	46.7	<5	217	11	>10.00	2131	<10	1250	10	18	<20	<20	10	0.92	0.11	3.12	0.01	0.14	31	33	17	5	<1	<5	
139659	45	14.6	9.5	>10000	1.2	671	>10000	2	865	54	118.4	<5	175	18	>10.00	7041	<10	894	7	40	<20	<20	34	1.55	0.11	0.83	<0.01	0.08	21	138	11	6	4	<5
139660	<5	0.9	0.8	40	19	474	1	14	1	11.1	<5	6	<5	0.31	383	<10	964	4	3	<20	<20	2	0.07	0.18	>10.00	<0.01	0.02	182	4	<2	<1	5	<5	
139661	<5	5.3	2.6	1115	135	>10000	<1	404	23	79.9	<5	91	11	>10.00	3836	<10	669	6	19	<20	<20	16	1.11	0.08	0.22	<0.01	0.10	10	66	19	4	<1	<5	
139662	8	3.9	2.1	2249	236	>10000	3	177	11	148.1	<5	1113	33	>10.00	1529	<10	929	6	10	<20	<20	9	1.45	0.40	5.04	0.01	0.04	28	59	19	2	<1	<5	



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SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Zn PCT
139637		<10	<.01	10	0.01	0.04
139638		<10	<.01	8	0.01	0.06
139639		<10	<.01	<1	<.01	0.13
139640		<10	<.01	<1	<.01	0.10
139641		<10	<.01	1	<.01	0.17
139642		<10	<.01	<1	<.01	0.11
139643		<10	<.01	<1	<.01	0.22
139644		<10	<.01	<1	<.01	0.25
139645		<10	<.01	3	<.01	0.51
139646		<10	<.01	<1	<.01	0.50
139647		<10	<.01	<1	0.01	0.46
139648		<10	<.01	5	0.15	0.85
139649		<10	<.01	4	0.12	4.77
139650		<10	<.01	2	<.01	0.54
139654		<10	<.01	<1	0.02	0.49
139655		<10	<.01	<1	<.01	<0.01
139656		<10	<.01	5	0.05	0.86
139657		<10	<.01	3	0.02	0.29
139658		<10	<.01	17	0.02	3.33
139659		<10	<.01	13	0.10	5.32
139660		<10	<.01	<1	<.01	0.05
139661		<10	<.01	16	0.02	7.22
139662		<10	<.01	11	0.04	13.13



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STANDARD NAME	ELEMENT	Au30	AgGrav	Ag	Cu	CuLOL	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
	UNITS	PPB	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
ANALYTICAL BLANK		<5	<0.2	<1	<1	<2	34	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	0.1	0.5	1	1	34	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	0.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	<0.01	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	0.005	1	1	.01	.01	.01	<.0001	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01
Gannet Standard	2482	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	2482	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD	-	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 4	-	-	1.0	292	-	29	250	3	39	10	1.1	<5	29	<5	2.86	592	<10	66	74	7	<20	<20	4	0.86	1.23	1.47	0.06	0.16	40	3	<2	6	2	<5	
Number of Analyses	-	-	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	-	1.0	292	-	29	250	3	39	10	1.1	3	29	3	2.86	592	5	66	74	7	10	10	4	0.86	1.23	1.47	0.06	0.16	40	3	1	6	2	3	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	-	-	0.8	290	0.03	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	



Intertek Testing Services

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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT	Ta	Ti	Zr	Pb	Zn
	UNITS	PPM	PCT	PPM	PCT	PCT
ANALYTICAL BLANK		<10	<.01	<1	-	-
ANALYTICAL BLANK		-	-	-	-	-
Number of Analyses		1	1	1	-	-
Mean Value		5	.005	0.5	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		.01	<.01	.01	<.01	<.0001

Gannet Standard	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-

FA SYNTHETIC STD	-	-	-	-	-	-
FA SYNTHETIC STD	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-

BCC GEOCHEM STD 4	<10	<.01	13	-	-	-
Number of Analyses	1	1	1	-	-	-
Mean Value	5	.005	13	-	-	-
Standard Deviation	-	-	-	-	-	-
Accepted Value	1	0.01	8	-	-	-



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PROJECT: SILVERTIP

STANDARD	ELEMENT	Au30	AgGrav	Ag	Cu	CUOL	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	
NAME	UNITS	PPB	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	
Gannet Standard		1062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		1062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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PROJECT: SILVERTIP
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STANDARD NAME	ELEMENT	Ta UNITS PPM	Ti PCT PPM	Zr PCT	Pb PCT	Zn PCT
Gannet Standard		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-
CANMET CERTIFIED STD		-	-	-	4.34	>15.00
Number of Analyses		-	-	-	1	1
Mean Value		-	-	-	4.34	15.00
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	4.33	19.02



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SAMPLE NUMBER	ELEMENT	Au30 UNITS	AgGrav PPB	Ag PPM	Cu CUOL PPM	Pb PCT	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
139637		<5	1.3	0.9	303	142	416	12	22	7	1.4	<5	292	8	3.92	54	<10	1200	75	74	<20	<20	11	0.70	0.03	<0.01	<.01	0.13	16	5	4	3	9	<5	
Prep Duplicate		<5	2.2	0.9	329	146	547	13	25	8	1.6	<5	308	9	4.21	58	<10	1254	70	77	<20	<20	12	0.74	0.03	0.01	<.01	0.15	16	5	4	3	10	<5	
Prep Duplicate		6		1.0	328	154	473	13	25	8	1.6	<5	316	10	4.24	59	<10	1180	80	76	<20	<20	11	0.72	0.03	<0.01	<.01	0.14	17	5	4	2	10	<5	
139642 Duplicate		<5	1.7	1.6	677	10	1145	2	335	669	7.2	<5	41	<5	0.39	4590	<10	1602	2	18	<20	<20	<1	>10.00	<.01	0.12	<.01	0.03	7	1	<2	7	17	17	
			3.5																																
139646 Duplicate		<5	8.5	7.6	2468	21	4397	1	821	213	42.8	<5	16	<5	0.14	9961	<10	788	1	7	<20	<20	<1	>10.00	0.01	0.25	<.01	0.06	13	5	<2	30	14	<5	
139654 Duplicate		<5	3.0	2.4	465	98	3219	3	130	2	11.4	12	8	<5	0.60	612	<10	209	1	6	<20	<20	3	0.21	0.51	>10.00	<.01	0.02	201	17	<2	1	6	<5	
139657 Duplicate		<5	5.5	4.1	60	119	1986	1	83	8	61.6	<5	65	7	1.51	1479	<10	450	2	7	<20	<20	5	0.19	0.52	>10.00	<.01	0.05	154	15	<2	2	6	<5	
			4.1																																
139658 Duplicate		<5	4.8	2.3	387	128	>10000	<1	206	21	46.7	<5	217	11	>10.00	2131	<10	1250	10	18	<20	<20	10	0.92	0.11	3.12	0.01	0.14	31	33	17	5	<1	<5	
				2.2	378	128	>10000	<1	203	21	45.8	<5	213	10	>10.00	2109	<10	1191	11	17	<20	<20	10	0.89	0.11	3.08	0.01	0.13	31	33	17	5	<1	<5	
139659 Duplicate		45	14.6	9.5	>10000	1.2	671	>10000	2	865	54	118.4	<5	175	18	>10.00	7041	<10	894	7	40	<20	<20	34	1.55	0.11	0.83	<.01	0.08	21	138	11	6	4	<5
139662 Duplicate		8	3.9	2.1	2249	236	>10000	3	177	11	148.1	<5	1113	33	>10.00	1529	<10	929	6	10	<20	<20	9	1.45	0.40	5.04	0.01	0.04	28	59	19	2	<1	<5	
		19																																	



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SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Zn PCT
139637		<10	<.01	10	0.01	0.04
Prep Duplicate		<10	<.01	11	0.02	0.04
Prep Duplicate		<10	<.01	11	0.01	0.05
139642		<10	<.01	<1	<.01	0.11
Duplicate						
139646		<10	<.01	<1	<.01	0.50
Duplicate					<.01	0.52
139654		<10	<.01	<1	0.02	0.49
Duplicate					0.02	0.49
139657		<10	<.01	3	0.02	0.29
Duplicate						
139658		<10	<.01	17	0.02	3.33
Duplicate		<10	<.01	17		
139659		<10	<.01	13	0.10	5.32
Duplicate					0.09	5.15
139662		<10	<.01	11	0.04	13.13
Duplicate						



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SAMPLE NUMBER	ELEMENT UNITS	Al30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
139663		16	3.8	3.8	106	328	848	14	36	4	1.6	<5	61	13	2.19	76	<10	709	174	44	<20	<20	9	0.45	0.04	0.06	0.01	0.16	5	8	3	2	4	<5
139664		34	28.2	27.0	233	1022	2119	47	60	8	7.8	<5	214	242	3.69	121	<10	>2000	71	99	20	<20	18	0.93	0.11	1.41	<.01	0.25	24	18	5	3	9	<5
139665		6	6.7	7.4	74	2758	>10000	7	218	131	252.6	<5	389	226	>10.00	9632	<10	1233	5	13	<20	<20	11	0.14	0.13	5.47	<.01	0.03	30	84	11	1	<1	<5
139666		<5	1.8	1.8	11	201	1460	2	14	8	10.5	<5	95	11	1.10	1667	<10	180	<1	4	<20	<20	3	<.01	0.14	>10.00	<.01	<.01	186	6	<2	<1	3	<5
139667		280	395.8	>200.0	2493	>10000	>10000	19	88	44	415.8	<5	2244	392	7.95	2819	<10	11	112	15	>2000	<20	3	0.21	0.25	1.25	<.01	0.06	29	5	38	1	<1	<5
139668		24	14.3	14.1	110	2221	4799	16	94	28	30.0	<5	128	16	2.63	1765	<10	82	67	24	73	<20	2	0.22	0.39	9.83	<.01	0.08	73	6	<2	1	3	<5
139669		25	18.3	18.3	89	3529	3892	11	30	6	28.5	<5	322	38	2.24	1240	<10	90	20	14	55	<20	3	0.06	0.65	>10.00	<.01	0.02	113	5	<2	<1	3	<5
139670		<5	<0.7	0.9	6	119	433	6	7	2	3.2	5	23	<5	0.20	800	<10	67	1	4	<20	<20	2	<.01	0.27	>10.00	<.01	<.01	150	3	<2	<1	3	<5
139671		14	9.2	8.1	43	1434	4911	25	86	18	35.9	<5	151	25	4.74	1395	<10	24	112	22	29	<20	2	0.22	0.87	4.53	<.01	0.09	27	7	<2	1	2	<5
139672		262	239.6	>200.0	576	>10000	>10000	<1	4	2	253.2	8	5615	602	>10.00	661	<10	9	45	<1	321	<20	4	<.01	0.04	5.81	<.01	<.01	29	1	33	<1	<1	<5
139673		26	42.6	41.9	419	8472	2237	3	6	2	13.7	10	507	723	1.78	707	11	51	2	2	297	<20	3	<.01	0.39	>10.00	<.01	<.01	149	4	<2	<1	3	<5
139674		18	25.1	24.0	114	3788	6223	1	2	<1	43.5	<5	566	52	1.87	5258	<10	21	5	1	61	<20	4	<.01	0.18	>10.00	<.01	<.01	84	3	4	<1	2	<5
139675		262	739.7	>200.0	2573	>10000	>10000	<1	2	2	791.9	88	4884	>2000	>10.00	928	<10	<1	6	<1	1622	<20	6	<.01	<.01	1.11	<.01	<.01	3	<1	80	<1	<1	<5
139676		282	799.7	>200.0	2356	>10000	>10000	<1	2	3	774.0	140	5348	>2000	>10.00	865	<10	<1	23	<1	1522	<20	5	<.01	<.01	0.95	<.01	<.01	3	<1	76	<1	<1	<5
139677		386	483.4	>200.0	642	>10000	>10000	<1	4	2	220.5	<5	3127	675	>10.00	2427	<10	6	45	<1	440	<20	5	<.01	0.25	5.39	<.01	<.01	23	2	23	<1	<1	<5
139678		3100	84.4	84.9	761	8406	>10000	<1	9	3	488.6	<5	8063	331	>10.00	806	<10	3	56	<1	472	<20	11	<.01	0.01	0.98	<.01	<.01	3	<1	40	<1	<1	<5
139679		5720	37.4	31.0	247	3315	>10000	<1	8	3	238.3	<5	>10000	138	>10.00	407	<10	4	86	<1	106	<20	1	<.01	<.01	0.79	<.01	<.01	2	<1	28	<1	<1	<5
139680		2933	285.7	>200.0	1164	>10000	>10000	<1	7	3	463.1	<5	9031	914	>10.00	525	<10	3	55	<1	727	<20	9	<.01	<.01	0.59	<.01	<.01	2	<1	45	<1	<1	<5
139681		4399	56.9	51.3	498	5230	>10000	<1	9	3	628.9	<5	>10000	157	>10.00	761	<10	4	70	<1	281	<20	7	<.01	<.01	0.60	<.01	<.01	1	<1	54	<1	<1	<5
139682		2920	203.1	199.0	820	>10000	>10000	<1	10	3	779.3	<5	9378	643	>10.00	1080	<10	3	92	<1	485	<20	7	<.01	<.01	0.90	<.01	<.01	2	<1	66	<1	<1	<5
139683		1101	45.3	67.9	314	9569	>10000	2	24	8	169.4	<5	4797	164	>10.00	1297	<10	7	115	<1	210	<20	8	<.01	<.01	2.37	<.01	<.01	5	2	21	<1	<1	<5
139684		1566	179.1	167.6	949	9701	>10000	<1	17	5	489.0	<5	8173	400	>10.00	837	<10	3	70	<1	570	<20	1	<.01	<.01	1.19	<.01	<.01	3	<1	55	<1	<1	<5
139685		3288	200.6	183.7	817	8285	>10000	<1	6	2	544.2	<5	7650	351	>10.00	1549	<10	3	32	<1	573	<20	13	<.01	0.02	2.33	<.01	<.01	5	<1	52	<1	<1	<5
139686		902	339.7	>200.0	599	>10000	>10000	<1	7	2	303.0	<5	5509	872	>10.00	3548	<10	11	47	<1	540	<20	7	0.02	0.10	6.50	<.01	0.01	22	4	30	<1	<1	<5
139687		<5	<0.7	1.0	3	92	169	2	1	<1	1.3	<5	17	<5	0.36	438	<10	16	2	3	<20	<20	2	0.07	8.27	>10.00	0.01	0.01	90	3	<2	4	4	<5
139688		49	19.1	22.2	57	2658	3493	1	2	<1	26.6	<5	246	26	0.86	3802	<10	19	3	3	37	<20	5	0.02	0.98	>10.00	<.01	<.01	90	5	<2	<1	3	<5
139689		7	12.5	13.6	43	2022	575	2	2	<1	4.1	6	66	38	0.37	4405	<10	24	2	2	29	<20	3	0.02	0.57	>10.00	<.01	<.01	132	5	<2	<1	3	<5
139690		1164	49.2	45.3	116	5891	>10000	<1	3	1	164.0	<5	2145	58	4.83	5970	<10	9	21	<1	86	<20	10	<.01	0.27	>10.00	<.01	<.01	43	7	13	<1	2	<5
139691		56	15.7	14.9	32	3592	1309	<1	1	<1	9.3	<5	367	53	1.20	5026	<10	15	2	<1	23	<20	4	<.01	0.70	>10.00	<.01	<.01	136	4	<2	<1	3	<5
139692		9	2.5	2.6	8	431	532	1	2	<1	3.3	<5	39	<5	0.21	650	<10	18	2	1	<20	<20	1	<.01	0.99	>10.00	<.01	<.01	164	1	<2	<1	3	<5



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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PPM
139663	<10	<.01	9	0.03			0.09		
139664	<10	<.01	8	0.12			0.26		
139665	<10	<.01	10	0.46			9.60		
139666	<10	<.01	<1	0.03			0.24		
139667	<10	<.01	7	10.96			7.99		
139668	<10	<.01	6	0.28			0.76		
139669	<10	<.01	3	0.50			0.64		
139670	<10	<.01	<1	0.02			0.06		
139671	<10	<.01	7	0.18			0.74		
139672	<10	<.01	7	6.50			6.00		
139673	<10	<.01	<1	1.29			0.37		469
139674	<10	<.01	<1	0.60			1.39		95
139675	<10	<.01	6		15.62			21.43	1974
139676	<10	<.01	5		17.83			21.64	1317
139677	<10	<.01	4	13.07			6.49		599
139678	<10	<.01	9	1.30			13.22		792
139679	<10	<.01	10	0.55			5.01		235
139680	<10	<.01	9	6.61			12.92		1021
139681	<10	<.01	9	0.78			14.88		555
139682	<10	<.01	8	4.30				17.27	700
139683	<10	<.01	6	1.23			2.86		405
139684	<10	<.01	10	3.61			12.81		1130
139685	<10	<.01	8	4.09			13.40		1510
139686	<10	<.01	6	9.12			6.72		1475
139687	<10	<.01	<1	0.02			0.01		
139688	<10	<.01	<1	0.38			0.59		
139689	<10	<.01	<1	0.30			0.08		
139690	<10	<.01	2	0.88			3.93		
139691	<10	<.01	<1	0.50			0.20		
139692	<10	<.01	<1	0.06			0.07		



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
		UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
139693		1633	153.4	161.5	459	>10000	>10000	6	17	4	229.5	<5	3681	328	9.20	1159	<10	21	40	6	327	<20	10	0.03	0.51	8.42	<.01	0.01	69	2	19	<1	<1	<5
139694		7	1.4	1.6	8	138	450	3	4	<1	2.9	<5	36	<5	0.66	1229	<10	41	<1	2	<20	<20	2	<.01	1.22	>10.00	<.01	<.01	150	3	<2	<1	3	<5



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Geochemical Lab Report

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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PPM
139693	<10	<.01	5	3.16			5.44		
139694	<10	<.01	<1	0.02			0.06		



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Geochemical Lab Report

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PROJECT: SILVERTIP

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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM		
ANALYTICAL BLANK		<5	<0.7	<0.2	<1	<2	12	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		3	0.4	0.1	0.5	1	12	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	0.005	1	1	0.005	.01	.01	<0.01	<0.01	<0.0001	<0.01	<0.01	.01	.01	.01	.01	.01	.01		
Garnet Standard	2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	2400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5	-	-	1.0	83	18	162	<1	36	21	1.0	<5	15	<5	4.63	703	<10	199	49	120	<20	<20	7	3.20	1.61	1.04	0.06	0.32	41	8	7	25	12	10			
Number of Analyses	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	-	-	1.0	83	18	162	0.5	36	21	1.0	3	15	3	4.63	703	5	199	49	120	10	10	7	3.20	1.61	1.04	0.06	0.32	41	8	7	25	12	10			
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18			
Garnet Standard	1071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-
Number of Analyses		1	1	1	-	-	-	-	-
Mean Value		5	.005	0.5	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-
Accepted Value		.01	<.01	.01	<.001	<.001	<.0001	<.001	.005

Gannet Standard	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-

BCC GEOCHEM STD 5	<10	0.21	15	-	-	-	-	-	-
Number of Analyses	1	1	1	-	-	-	-	-	-
Mean Value	5	0.21	15	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	1	-	9	-	-	-	-	-	-

Gannet Standard	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-

CANMET CERTIFIED STD	-	-	-	4.38	-	>15.00	-	-	-
Number of Analyses	-	-	-	1	-	1	-	-	-
Mean Value	-	-	-	4.38	-	15.00	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	4.33	4.32	19.02	19.02	-	-



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STANDARD NAME	ELEMENT UNITS	AU30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
FA SYNTHETIC STD		-	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USGS GXR-4 STD REF		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

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Geochemical Lab Report

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PROJECT: SILVERTIP
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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
FA SYNTHETIC STD		-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-
USGS GXR-4 STD REF		-	-	-	-	-	-	-	5
Number of Analyses		-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	5
Standard Deviation		-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	6



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SAMPLE NUMBER	ELEMENT UNITS	AL3O3 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
139663 Duplicate		16	3.8	3.8	106	328	848	14	36	4	1.6	<5	61	13	2.19	76	<10	709	174	44	<20	<20	9	0.45	0.04	0.06	0.01	0.16	5	8	3	2	4	<5
139668 Duplicate		24 18	14.3 14.5	14.1 14.0	110 119	2221 2426	4799 5121	16 17	96 103	28 31	30.0 32.5	<5 <5	128 133	16 16	2.63 2.90	1765 1921	<10 <10	82 83	67 71	24 24	73 79	<20 <20	2	0.22 0.23	0.39 0.43	9.83 >10.00	<.01 <.01	0.08 0.08	73 80	6 7	<2 <2	1 <1	3 3	<5 <5
139672 Duplicate		262	239.6	>200.0	576	>10000	>10000	<1	4	2	253.2	8	5615	602	>10.00	661	<10	9	45	<1	321	<20	4	<.01	0.04	5.81	<.01	<.01	29	1	33	<1	<1	<5
139677 Duplicate		386	483.4	>200.0	642	>10000	>10000	<1	4	2	220.5	<5	3127	675	>10.00	2427	<10	6	45	<1	440	<20	5	<.01	0.25	5.39	<.01	<.01	23	2	23	<1	<1	<5
139678 Duplicate		3100	84.4	84.9	761	8406	>10000	<1	9	3	488.6	<5	8063	331	>10.00	806	<10	3	56	<1	472	<20	11	<.01	0.01	0.98	<.01	<.01	3	<1	40	<1	<1	<5
139680 Duplicate		2933	285.7 285.2	>200.0	1164	>10000	>10000	<1	7	3	463.1	<5	9031	914	>10.00	525	<10	3	55	<1	727	<20	9	<.01	<.01	0.59	<.01	<.01	2	<1	45	<1	<1	<5
139682 Duplicate		2920	203.1	199.0	820	>10000	>10000	<1	10	3	779.3	<5	9378	643	>10.00	1080	<10	3	92	<1	485	<20	7	<.01	<.01	0.90	<.01	<.01	2	<1	66	<1	<1	<5
139685 Duplicate		3288	200.6	183.7 185.6	817 1073	8285	>10000	<1	6 8	2 2	544.2 642.2	<5 <5	7650 9500	351 431	>10.00	1549	<10	3 4	32 40	<1 <1	573 677	<20 <20	13 17	<.01 <.01	0.02 0.02	2.33 2.65	<.01 <.01	<.01 <.01	5 7	<1 1	52 64	<1 <1	<1 <1	<5 <5
139687 Prep Duplicate Duplicate		<5 <5	<0.7 <0.7	1.0 0.6	3 3	92 70	169 129	2 2	1 2	<1 <1	1.3 0.9	<5 <5	17 14	<5 <5	0.36 0.35	438 444	<10 <10	16 16	2 2	3 3	<20 <20	<20 <20	2	0.07 0.07	8.27 8.34	>10.00 >10.00	0.01 0.01	0.01 0.01	90 91	3 3	<2 <2	4 5	4 4	<5 <5
139690 Duplicate		1164 1166	49.2	45.3	116	5891	>10000	<1	3	1	164.0	<5	2145	58	4.83	5970	<10	9	21	<1	86	<20	10	<.01	0.27	>10.00	<.01	<.01	43	7	13	<1	2	<5
139691 Duplicate		56	15.7 15.8	14.9	32	3592	1309	<1	1	<1	9.3	<5	367	53	1.20	5026	<10	15	2	<1	23	<20	4	<.01	0.70	>10.00	<.01	<.01	136	4	<2	<1	3	<5



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

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REPORT: V97-01975.0 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
139663		<10	<.01	9	0.03		0.09		
Duplicate					0.04		0.10		
139668		<10	<.01	6	0.28		0.76		
Duplicate		<10	<.01	6					
139672		<10	<.01	7	6.50		6.00		
Duplicate					6.56		6.22		
139677		<10	<.01	4	13.07		6.49		599
Duplicate					12.71		6.53		
139678		<10	<.01	9	1.30		13.22		792
Duplicate									739
139680		<10	<.01	9	6.61		12.92		1021
Duplicate									
139682		<10	<.01	8	4.30			17.27	700
Duplicate					4.31				
139685		<10	<.01	8	4.09		13.40		1510
Duplicate		<10	<.01	9					
139687		<10	<.01	<1	0.02		0.01		
Prep Duplicate		<10	<.01	<1	0.01		<0.01		
Duplicate					0.02		0.02		
139690		<10	<.01	2	0.88		3.93		
Duplicate									
139691		<10	<.01	<1	0.50		0.20		
Duplicate									



Intertek Testing Services
Bondar Clegg

**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
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PROJECT: SILVERTIP
DATE RECEIVED: 11-AUG-97 DATE PRINTED: 1-SEP-97 PAGE 6A(11/12)

SAMPLE NUMBER	ELEMENT	AL3O	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
139692		9	2.5	2.6	8	431	532	1	2	<1	3.3	<5	39	<5	0.21	650	<10	18	2	1	<20	<20	1	<.01	0.99	>10.00	<.01	<.01	164	1	<2	<1	3	<5
Duplicate																																		



Intertek Testing Services
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**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01975.0 (COMPLETE)

DATE RECEIVED: 11-AUG-97

DATE PRINTED: 1-SEP-97 PAGE 68(12/12)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT	Ta	Ti	Zr	Pb	Pb	Zn	Zn	Sn
	UNITS	PPM	PCT	PPM	PCT	PCT	PCT	PCT	PPM
139692		<10	<.01	<1	0.06		0.07		
Duplicate					0.06		0.07		



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**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01975.1 (COMPLETE)

DATE RECEIVED: 11-AUG-97

DATE PRINTED: 2-OCT-97 PAGE 1 OF 2

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT Ge UNITS	In PPM
139673	<.5	2.58
139674	<.5	2.21
139675	1.4	94.80
139676	1.4	107.00
139677	1.1	44.10
139678	1.7	10.60
139679	2.6	2.59
139680	1.7	24.10
139681	1.8	7.63
139682	1.6	10.40
139683	0.7	3.36
139684	1.5	5.42
139685	1.6	12.20
139686	1.0	10.60



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**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-01975.1 (COMPLETE)

DATE RECEIVED: 11-AUG-97

DATE PRINTED: 2-OCT-97 PAGE 2 OF 2

PROJECT: SILVERTIP

STANDARD NAME	ELEMENT Ge UNITS	In PPM
CANMET STD SY-3	1.0	0.05
Number of Analyses	1	1
Mean Value	1.0	0.05
Standard Deviation	-	-
Accepted Value	-	-



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02119.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 19-AUG-97 DATE PRINTED: 31-AUG-97 PAGE 1A(1/ 6)

SAMPLE NUMBER	ELEMENT Au30		AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PCT	
V140965	39	17.9	13.4	92	3582	1530	1	15	3	3.5	15	276	29	2.32	490	<10	303	4	4	<20	<20	<1	0.09	2.80	>10.00	<.01	0.01	136	4	<2	4	8	<5	<10	<.01	
V140966	36	11.3	8.8	133	5261	3871	1	19	3	5.9	14	310	32	3.74	665	<10	641	4	6	29	<20	<1	0.11	0.20	>10.00	<.01	0.02	131	4	4	3	9	<5	<10	<.01	
V140967	403	273.6	>200.0	992	>10000	>10000	9	104	9	54.2	108	3392	241	>10.00	2765	35	803	7	21	164	71	28	0.51	0.05	1.82	<.01	0.05	15	28	31	3	2	<5	<10	<.01	
V140968	283	177.0	129.8	1481	>10000	9946	10	143	12	45.9	139	3038	334	>10.00	1443	28	517	7	25	201	25	14	0.63	0.13	1.53	<.01	0.03	13	41	48	4	2	<5	<10	<.01	
V140969	302	219.9	168.1	1353	>10000	9926	9	129	12	50.2	129	3333	392	>10.00	1578	27	326	23	25	262	25	11	0.64	0.13	3.03	<.01	0.06	22	28	54	5	2	<5	<10	<.01	
V140970	192	79.6	65.2	468	>10000	6499	7	257	133	31.7	98	1589	190	>10.00	4782	13	855	22	26	123	<20	2	1.69	0.41	9.77	<.01	0.08	67	22	20	19	5	<5	<10	<.01	
V140971	55	24.5	17.9	94	4177	1554	1	22	4	5.1	41	582	62	3.33	592	<10	313	6	5	52	<20	<1	0.12	2.84	>10.00	<.01	0.02	181	5	4	5	8	<5	<10	<.01	
V140972	104	37.2	29.0	154	5291	2746	2	52	7	12.7	40	769	81	5.00	840	<10	571	7	8	60	<20	<1	0.24	0.30	>10.00	<.01	0.04	130	8	7	5	8	<5	<10	<.01	
V140973	50	49.2	37.6	141	6653	>10000	2	227	3	17.1	41	518	78	3.89	1146	17	515	5	7	42	43	<1	0.19	2.83	>10.00	<.01	0.04	90	6	7	7	7	<5	<10	<.01	
V140974	273	135.2	99.6	894	>10000	8516	14	116	10	36.2	350	6548	614	>10.00	1488	30	154	21	27	244	22	4	0.59	0.05	1.28	<.01	0.06	10	17	90	5	1	<5	<10	<.01	
V140975	287	139.3	112.6	828	>10000	5472	6	156	50	23.1	88	3003	300	>10.00	4164	18	485	6	22	115	<20	4	1.69	0.10	7.78	<.01	0.06	101	19	38	12	4	<5	<10	<.01	
V140976	148	118.0	83.7	1399	>10000	7936	8	155	24	30.9	70	2483	390	>10.00	3556	22	271	9	33	94	37	5	1.36	0.06	1.84	<.01	0.06	14	15	43	5	2	<5	<10	<.01	
V140977	292	162.2	115.9	925	>10000	7665	8	132	17	22.5	211	2398	458	>10.00	2078	33	296	13	19	186	26	3	0.98	0.09	4.11	<.01	0.04	24	14	56	3	3	<5	<10	<.01	
V140978	435	197.5	149.1	991	>10000	>10000	14	235	24	37.0	190	2777	381	>10.00	2289	30	1145	19	20	228	34	12	0.61	0.07	0.89	<.01	0.10	14	65	48	3	2	<5	<10	<.01	



Intertek Testing Services
Bondar Clegg

**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02119.0 (COMPLETE)

DATE RECEIVED: 19-AUG-97

DATE PRINTED: 31-AUG-97

PAGE 1B(2/ 6)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Pb PCT	Zn PCT
V140965	<1	0.51			0.25
V140966	<1	0.73			0.66
V140967	3	6.64			6.93
V140968	2	7.20			2.40
V140969	1	8.05			2.45
V140970	3	1.97			1.15
V140971	<1	0.59			0.26
V140972	1	0.73			0.46
V140973	1	0.92			4.80
V140974	2	4.58			1.84
V140975	2	3.04			1.02
V140976	2	3.11			1.78
V140977	1	10.39			1.68
V140978	5	>15.00	15.10		2.39



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02119.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 19-AUG-97 DATE PRINTED: 31-AUG-97 PAGE 2A(3/ 6)

STANDARD NAME	ELEMENT UNITS	Ag30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	
ANALYTICAL BLANK		<5	-	<0.2	<1	2	5	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01	
Number of Analyses		1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	-	0.1	0.5	2	5	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.005	1	1	.01	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	<.01	
Gannet Standard		395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD		-	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 4		-	-	1.0	281	91	233	3	39	9	1.0	<5	30	<5	2.76	559	<10	63	73	7	<20	<20	2	0.80	1.16	1.38	0.05	0.15	39	3	<2	5	2	<5	<10	<.01	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		-	-	1.0	281	91	233	3	39	9	1.0	3	30	3	2.76	559	5	63	73	7	10	10	2	0.80	1.16	1.38	0.05	0.15	39	3	1	5	2	3	5	.005	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		-	-	0.8	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1	0.01	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02119.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 19-AUG-97 DATE PRINTED: 31-AUG-97 PAGE 28(4/ 6)

STANDARD NAME	ELEMENT UNITS	Zr PPM	Pb PCT	Pb PCT	Zn PCT
ANALYTICAL BLANK	<1	-	-	-	-
Number of Analyses	1	-	-	-	-
Mean Value	0.5	-	-	-	-
Standard Deviation	-	-	-	-	-
Accepted Value	.01	<.0001	<.001	<.0001	-
Gannet Standard	-	-	-	-	-
Number of Analyses	-	-	-	-	-
Mean Value	-	-	-	-	-
Standard Deviation	-	-	-	-	-
Accepted Value	-	-	-	-	-
FA SYNTHETIC STD	-	-	-	-	-
Number of Analyses	-	-	-	-	-
Mean Value	-	-	-	-	-
Standard Deviation	-	-	-	-	-
Accepted Value	-	-	-	-	-
CANMET CERTIFIED STD	-	4.37	-	>15.00	-
Number of Analyses	-	1	-	1	-
Mean Value	-	4.37	-	15.00	-
Standard Deviation	-	-	-	-	-
Accepted Value	-	4.33	4.32	19.02	-
BCC GEOCHEM STD 4	10	-	-	-	-
Number of Analyses	1	-	-	-	-
Mean Value	10	-	-	-	-
Standard Deviation	-	-	-	-	-
Accepted Value	8	-	-	-	-



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02119.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 19-AUG-97 DATE PRINTED: 31-AUG-97 PAGE 3A(5/ 6)

SAMPLE NUMBER	ELEMENT	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PCT	
V140965 Duplicate		39	17.9	13.4	92	3582	1530	1	15	3	3.5	15	276	29	2.32	490	<10	303	4	4	<20	<20	<1	0.09	2.80	>10.00	<.01	0.01	136	4	<2	4	8	<5	<10	<.01
V140970 Duplicate		192	79.6 76.6	65.2	468	>10000	6499	7	257	133	31.7	98	1589	190	>10.00	4782	13	855	22	26	123	<20	2	1.69	0.41	9.77	<.01	0.08	67	22	20	19	5	<5	<10	<.01
V140974 Duplicate		273 284	135.2	99.6 101.9	894 900	>10000 >10000	8516 8471	14 13	116 116	10 10	36.2 37.0	350 358	6548 6561	614 603	>10.00 >10.00	1488 1494	30 29	154 140	21 22	27 27	244 246	22 23	4	0.59	0.05	1.28	<.01	0.06	10	17	90 91	5 3	1 2	<5 <5	<10 <10	<.01 <.01



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02119.0 (COMPLETE)

DATE RECEIVED: 19-AUG-97

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Pb PCT	Zn PCT
V140965	<1		0.51		0.25
Duplicate			0.52		0.26
V140970	3		1.97		1.15
Duplicate					
V140974	2		4.58		1.84
Duplicate	2		4.54		1.83



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02213.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 26-AUG-97 DATE PRINTED: 20-MAR-98 PAGE 1A(1/ 6)

SAMPLE NUMBER	ELEMENT	AU30 UNITS	Ag		Cu	Pb		Zn	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb
			AgGrav	PPM		PPM	PCT																												
139751		13	2.2	2.7	70	354	0.03	5572	0.65	4	59	12	35.2	<5	201	18	3.10	854	<10	19	431	26	40	<20	2	0.36	0.61	1.36	<.01	0.10	59	10	<2	<1	2
139752		13	20.0	22.3	59	4353	0.44	3643	0.40	3	33	4	70.2	<5	222	34	2.07	502	<10	32	287	9	31	<20	2	0.19	0.57	1.69	<.01	0.08	25	4	<2	1	1
139753		11	1.2	<0.7	19	176	0.02	6996	0.81	3	56	17	18.4	<5	134	9	2.64	876	<10	22	260	11	<20	<20	5	0.35	0.54	1.92	<.01	0.13	27	10	<2	<1	2
139754		8	0.3	<0.7	9	30	<.01	1702	0.17	2	24	8	6.3	<5	199	6	2.20	392	<10	33	176	6	<20	<20	6	0.30	0.36	1.06	<.01	0.11	21	7	<2	<1	<1
139755		<5	0.3	<0.7	50	59	<.01	5244	0.66	14	19	2	25.1	<5	51	44	0.72	423	<10	15	127	3	<20	<20	<1	0.02	0.04	8.11	<.01	0.01	39	2	<2	<1	3
139756		31	10.1	10.5	112	1952	0.21	3197	0.36	4	57	16	41.6	<5	469	49	5.02	355	<10	12	67	11	46	<20	3	0.41	0.48	2.51	<.01	0.14	30	6	<2	<1	<1
139757		54	2.4	2.8	22	270	0.03	394	0.04	5	22	1	1.1	6	71	31	>10.00	296	<10	14	39	<1	<20	<20	<1	<.01	0.11	8.11	<.01	0.02	56	5	<2	<1	<1
139758		28	4.8	5.3	14	1297	0.17	1623	0.22	2	7	1	13.5	11	77	22	9.02	1831	<10	7	25	<1	<20	<20	3	<.01	0.10	>10.00	<.01	<.01	91	6	<2	<1	3
139759		22	101.0	124.5	4419	4726	0.52	>10000		<1	14	5	1292.1	250	806	94	9.53	1096	39	4	123	<1	53	<20	<1	0.13	<.01	0.09	<.01	0.06	20	<1	22	<1	<1
139760		22	29.1	38.8	242	1585	0.23	>10000	3.21	7	22	20	111.7	197	2124	47	>10.00	97	<10	3	129	<1	24	<20	<1	0.22	<.01	0.04	<.01	0.08	30	1	<2	<1	<1
139761		25	55.6	69.5	461	3388	0.41	>10000	5.12	5	49	9	209.7	231	1712	61	>10.00	158	20	3	175	7	51	<20	<1	0.37	0.01	0.13	<.01	0.13	58	3	<2	<1	<1
139762		17	1.1	1.9	50	64	<.01	735	0.07	7	84	4	4.1	6	135	11	2.05	19	<10	30	131	28	<20	<20	4	1.18	0.03	2.10	0.01	0.20	51	13	<2	2	1
139763		40	43.2	49.2	363	8482	0.85	>10000	2.06	4	77	10	205.7	<5	226	476	3.31	172	11	32	189	23	183	<20	4	0.52	0.24	0.76	<.01	0.19	60	9	8	1	1
139764		156	10.5	13.9	22	554	0.08	815	0.09	19	41	<1	10.6	41	2390	42	>10.00	476	<10	3	92	7	20	<20	1	0.12	0.04	1.88	<.01	0.08	14	3	<2	1	<1
139765		72	15.4	17.8	456	1693	0.19	>10000	10.12	15	27	1	430.6	155	999	143	>10.00	2041	23	5	147	10	106	<20	4	0.09	1.08	4.58	<.01	0.06	25	5	22	<1	<1
139766		585	12.2	20.8	65	643	0.09	>10000	2.61	8	9	<1	109.2	31	5433	40	>10.00	309	<10	1	82	<1	28	<20	6	<.01	<.01	0.80	<.01	0.03	5	1	<2	<1	<1
139767		613S	>200.0	411.9	1113	>10000	7.41	>10000	11.99	1	5	<1	538.5	8	1874	561	9.44	2431	30	3	76	<1	812	<20	4	<.01	0.05	6.03	<.01	0.01	18	5	14	<1	<1
139768		<5S	0.2	<0.7	7	60	<.01	215	0.02	<1	1	<1	1.3	11	11	<5	0.38	457	<10	14	<1	3	<20	<20	2	0.07	9.25	>10.00	0.01	0.01	92	3	<2	4	10
139769		<5	<0.2	<0.7	1	32	<.01	73	<.01	1	1	<1	0.2	17	5	<5	0.06	667	<10	70	1	3	<20	<20	1	<.01	0.30	>10.00	<.01	<.01	161	2	<2	<1	8



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02213.0 (COMPLETE)

DATE RECEIVED: 26-AUG-97 DATE PRINTED: 20-MAR-98 PAGE 1B(2/ 6)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT	Sc	Ta	Ti	Zr	Zn
	UNITS	PPM	PPM	PCT	PPM	PCT
139751		<5	<10	<.01	5	
139752		<5	<10	<.01	4	
139753		<5	<10	<.01	11	
139754		<5	<10	<.01	10	
139755		<5	<10	<.01	<1	
139756		<5	<10	<.01	9	
139757		<5	<10	<.01	<1	
139758		<5	<10	<.01	<1	
139759		<5	<10	<.01	<1	34.46
139760		<5	<10	<.01	<1	
139761		<5	<10	<.01	7	
139762		<5	<10	<.01	2	
139763		<5	<10	<.01	13	
139764		<5	<10	<.01	<1	
139765		<5	<10	<.01	<1	
139766		<5	<10	<.01	<1	
139767		<5	<10	<.01	<1	
139768		<5	<10	<.01	<1	
139769		<5	<10	<.01	<1	



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02213.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 26-AUG-97 DATE PRINTED: 20-MAR-98 PAGE 2A(3/ 6)

STANDARD NAME	ELEMENT Au30 UNITS PPB	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Zn PPM	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	
ANALYTICAL BLANK	-	<0.2	-	<1	<2	-	12	-	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1
Number of Analyses	-	1	-	1	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	-	0.1	-	0.5	1	-	12	-	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	5	0.2	0.005	1	2	<0.01	1	<.0001	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.01	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	
Gannet Standard	1353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 4	-	1.0	-	270	31	-	223	-	3	47	10	1.0	<5	36	<5	2.83	571	<10	60	67	7	<20	<20	4	0.79	1.21	1.45	0.05	0.14	40	3	<2	6	1	
Number of Analyses	-	1	-	1	1	-	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	1.0	-	270	31	-	223	-	3	47	10	1.0	3	36	3	2.83	571	5	60	67	7	10	10	4	0.79	1.21	1.45	0.05	0.14	40	3	1	6	1	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	0.5	-	290	33	-	255	-	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.05	0.14	39	4	2	7	1	
CANMET CERTIFIED STD	-	-	-	-	-	4.32	-	>15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	-	-	-	4.32	-	15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	-	-	-	4.33	-	19.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02213.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 26-AUG-97 DATE PRINTED: 20-MAR-98 PAGE 2B(4/ 6)

STANDARD NAME	ELEMENT UNITS	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Zn PCT
ANALYTICAL BLANK		<5	<10	<.01	<1	-
Number of Analyses		1	1	1	1	-
Mean Value		3	5	.005	0.5	-
Standard Deviation		-	-	-	-	-
Accepted Value		.01	.01	<.01	.01	<.001
Gannet Standard		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-
BCC GEOCHEM STD 4		<5	<10	<.01	9	-
Number of Analyses		1	1	1	1	-
Mean Value		3	5	.005	9	-
Standard Deviation		-	-	-	-	-
Accepted Value		12	1	0.01	8	-
CANMET CERTIFIED STD		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	19.02



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02213.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 26-AUG-97 DATE PRINTED: 20-MAR-98 PAGE 3A(5/ 6)

SAMPLE NUMBER	ELEMENT Au30 UNITS PPB	Ag	AgGrav	Cu	Pb	Pb	Zn	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb
		PPM	PPM	PPM	PPM	PCT	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM
139751	13	2.2	2.7	70	354	0.03	5572	0.65	4	59	12	35.2	<5	201	18	3.10	854	<10	19	431	26	40	<20	2	0.36	0.61	1.36	<.01	0.10	59	10	<2	<1	2
Prep Duplicate	16	2.2	2.0	92	383	0.04	6146	0.75	5	65	13	37.1	<5	215	23	3.37	814	<10	23	453	24	49	<20	2	0.32	0.58	1.28	<.01	0.08	58	9	<2	<1	2
Duplicate						0.04		0.66																										
139754	8	0.3	<0.7	9	30	<.01	1702	0.17	2	24	8	6.3	<5	199	6	2.20	392	<10	33	176	6	<20	<20	6	0.30	0.36	1.06	<.01	0.11	21	7	<2	<1	<1
Duplicate	8	0.3		9	29		1694		2	24	8	6.3	<5	200	6	2.20	390	<10	40	171	6	<20	<20	7	0.30	0.36	1.06	<.01	0.11	21	7	<2	<1	<1
139756	31	10.1	10.5	112	1952	0.21	3197	0.36	4	57	16	41.6	<5	469	49	5.02	355	<10	12	67	11	46	<20	3	0.41	0.48	2.51	<.01	0.14	30	6	<2	<1	<1
Duplicate			12.9																															
139760	22	29.1	38.8	242	1585	0.23	>10000	3.21	7	22	20	111.7	197	2124	47	>10.00	97	<10	3	129	<1	24	<20	<1	0.22	<.01	0.04	<.01	0.08	30	1	<2	<1	<1
Duplicate						0.23		3.14																										
139765	72	15.4	17.8	456	1693	0.19	>10000	10.12	15	27	1	430.6	155	999	143	>10.00	2041	23	5	147	10	106	<20	4	0.09	1.08	4.58	<.01	0.06	25	5	22	<1	<1
Duplicate						0.19		9.95																										
139768	<5S	0.2	<0.7	7	60	<.01	215	0.02	<1	1	<1	1.3	11	11	<5	0.38	457	<10	14	<1	3	<20	<20	2	0.07	9.25	>10.00	0.01	0.01	92	3	<2	4	10
Duplicate			<0.7																															
Prep Duplicate	16	2.2	2.0	92	383	0.04	6146	0.75	5	65	13	37.1	<5	215	23	3.37	814	<10	23	453	24	49	<20	2	0.32	0.58	1.28	<.01	0.08	58	9	<2	<1	2
Duplicate						0.04		0.77																										



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02213.0 (COMPLETE)

DATE RECEIVED: 26-AUG-97

DATE PRINTED: 20-MAR-98 PAGE 3B(6/ 6)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Sc PPM	Ta PPM	Ti PCT	Zr PPM	Zn PCT
139751		<5	<10	<.01	5	
Prep Duplicate		<5	<10	<.01	4	
Duplicate						
139754		<5	<10	<.01	10	
Duplicate		<5	<10	<.01	9	
139756		<5	<10	<.01	9	
Duplicate						
139760		<5	<10	<.01	<1	
Duplicate						
139765		<5	<10	<.01	<1	
Duplicate						
139768		<5	<10	<.01	<1	
Duplicate						
Prep Duplicate		<5	<10	<.01	4	
Duplicate						



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02213.2 (COMPLETE)

DATE RECEIVED: 22-SEP-97

PROJECT: SILVERTIP

DATE PRINTED: 29-SEP-97

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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB
D2 139751		15
D2 139752		23
D2 139753		9
D2 139754		7
D2 139755		6
D2 139756		31
D2 139757		52
D2 139758		34
D2 139759		23
D2 139760		19
D2 139761		26
D2 139762		6
D2 139763		39
D2 139764		166
D2 139765		78
D2 139766		627
D2 139767		598
D2 139768		7
D2 139769		<5



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02213.2 (COMPLETE)

DATE RECEIVED: 22-SEP-97

PROJECT: SILVERTIP

DATE PRINTED: 29-SEP-97

PAGE 3 OF 3

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB
139751		15
Prep Duplicate		11
139754		7
Duplicate		5



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02212.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 26-AUG-97 DATE PRINTED: 19-SEP-97 PAGE 1A(1/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Au	Ag	Grav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti
		PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PCT
139695		18	4.1	3.0	32	235	1925	15	113	20	4.7	<5	89	12	3.01	1275	<10	52	100	22	<20	<20	4	0.28	0.83	1.79	<.01	0.10	50	7	<2	1	<1	<5	<10	<.01	
139696		225	163.1	127.2	739	>10000	>10000	18	69	5	268.5	<5	2007	508	8.22	619	<10	10	148	16	863	43	8	0.13	0.14	3.79	<.01	0.04	48	5	22	<1	<1	<5	<10	<.01	
139697		50	68.1	60.6	184	>10000	8216	24	95	8	62.8	<5	353	68	3.44	600	<10	45	152	22	161	<20	16	0.23	0.43	3.53	<.01	0.07	24	6	4	<1	<1	<5	<10	<.01	
139698		166	209.2	173.7	515	>10000	>10000	14	45	2	283.2	<5	1498	183	7.85	983	<10	26	75	20	368	36	38	0.10	0.15	>10.00	<.01	0.03	61	5	19	<1	<1	<5	<10	<.01	
139699		98	246.8	>200.0	792	>10000	>10000	15	47	2	300.8	<5	786	601	4.08	939	<10	27	57	22	1104	32	16	0.11	0.31	>10.00	<.01	0.03	79	4	18	<1	<1	<5	<10	<.01	
139700		72	53.7	43.3	373	6581	>10000	22	67	3	119.2	<5	706	148	4.10	922	<10	28	52	33	296	<20	12	0.13	0.71	>10.00	<.01	0.04	62	4	7	<1	1	<5	<10	<.01	
139701		2695	285.1	>200.0	1342	>10000	>10000	7	16	<1	510.5	<5	7425	1460	>10.00	638	<10	<1	76	4	1774	70	9	0.02	<.01	1.68	<.01	0.01	5	1	34	<1	<1	<5	<10	<.01	
139702		809	666.8	>200.0	775	>10000	>10000	3	8	<1	184.6	<5	5023	1060	>10.00	1295	<10	10	56	3	758	30	5	0.02	0.02	7.29	<.01	<.01	33	3	9	<1	<1	<5	<10	<.01	
139703		754	673.8	>200.0	869	>10000	>10000	3	9	<1	147.0	<5	3895	896	>10.00	1224	<10	7	55	3	854	29	5	0.01	0.02	5.75	<.01	<.01	28	2	6	<1	<1	<5	<10	<.01	
139704		1931	153.7	101.3	858	>10000	>10000	4	10	<1	491.8	6	5804	580	>10.00	1499	24	7	63	<1	652	<20	8	<.01	0.02	4.51	<.01	0.02	27	3	22	<1	<1	<5	<10	<.01	
139705		1025	529.5	>200.0	952	>10000	>10000	1	8	<1	651.1	<5	3808	1034	>10.00	650	14	2	44	2	665	169	4	<.01	<.01	0.45	<.01	<.01	2	<1	51	<1	<1	<5	<10	<.01	
139706		61	13.5	8.1	34	1053	2150	12	45	5	11.0	<5	173	29	1.44	616	<10	33	70	11	<20	<20	3	0.14	0.14	4.78	<.01	0.06	15	3	<2	<1	1	<5	<10	<.01	
139707		201	21.6	14.5	56	1948	5201	12	48	3	29.0	<5	788	100	3.24	190	<10	19	171	13	54	<20	3	0.10	<.01	0.86	<.01	0.04	4	<1	<2	<1	<1	<5	<10	<.01	
139708		1192	218.3	180.8	1230	>10000	>10000	5	35	5	466.3	<5	4518	680	>10.00	656	14	<1	86	6	1310	60	15	0.04	<.01	0.18	<.01	0.02	2	1	27	<1	<1	<5	<10	<.01	
139709		18	3.6	4.0	17	457	651	2	2	<1	4.2	<5	32	8	0.50	476	<10	16	1	3	<20	<20	3	0.08	9.39	>10.00	0.01	0.02	90	3	<2	5	12	<5	<10	<.01	
139710		1071	6.8	3.4	27	266	564	17	71	7	2.9	<5	76	15	1.82	644	<10	54	76	15	<20	<20	4	0.20	0.43	3.22	<.01	0.09	15	5	<2	1	<1	<5	<10	<.01	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02212.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 26-AUG-97 DATE PRINTED: 19-SEP-97 PAGE 1B(2/ 8)

SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT	Sn PPM
139695		9	0.02	0.23		
139696		6	3.57	4.83		
139697		11	1.36	1.05		
139698		4	4.49	5.62		
139699		3	5.05	6.08		
139700		5	0.84	2.80		
139701		2	5.56	10.83		2249
139702		2	14.81	3.65		899
139703		1	14.58	3.49		1251
139704		<1	2.82	9.62		786
139705		2	11.73		18.91	787
139706		4	0.18	0.34		
139707		3	0.25	0.67		
139708		3	4.58	8.17		
139709		<1	0.06	0.08		
139710		7	0.02	0.06		



Intertek Testing Services

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Geochemical Lab Report

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REPORT: V97-02212.0 (COMPLETE)

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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	<1	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Number of Analyses		1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	-	0.1	0.5	1	0.5	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.005	.01	.01	<0.01	<0.01	<.0001	<0.01	<0.01	.01	.01	.01	.01	.01	.01	.01	<0.01	
Gannet Standard		181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD		-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5		-	-	0.3	84	9	88	2	37	15	<0.2	<5	10	<5	4.60	686	<10	177	47	117	<20	<20	7	3.05	1.59	0.93	0.05	0.27	32	8	<2	24	6	10	<10	0.19	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		-	-	0.3	84	9	88	2	37	15	0.1	3	10	3	4.60	686	5	177	47	117	10	10	7	3.05	1.59	0.93	0.05	0.27	32	8	1	24	6	10	5	0.19	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18	1		
Fluorspar Granite		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		



Intertek Testing Services

Bondar Clegg

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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<1	-	-	-	-
Number of Analyses		1	-	-	-	-
Mean Value		0.5	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		.01	<.001	<.0001	<.001	.005
Gannet Standard		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-
CANMET CERTIFIED STD		-	4.33	>15.00	-	-
Number of Analyses		-	1	1	-	-
Mean Value		-	4.33	15.00	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	4.33	19.02	19.02	-
BCC GEOCHEM STD 5		13	-	-	-	-
Number of Analyses		1	-	-	-	-
Mean Value		13	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		9	-	-	-	-
Fluorspar Granite		-	-	-	-	<4
Number of Analyses		-	-	-	-	1
Mean Value		-	-	-	-	2
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	3



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STANDARD	ELEMENT	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	
NAME	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services
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STANDARD NAME	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT	Sn PPM
Lithium Ore	-	-	-	-	-	1962
Number of Analyses	-	-	-	-	-	1
Mean Value	-	-	-	-	-	1962
Standard Deviation	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	1900



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT
139695 Duplicate		18	4.1	3.0	32	235	1925	15	113	20	4.7	<5	89	12	3.01	1275	<10	52	100	22	<20	<20	4	0.28	0.83	1.79	<.01	0.10	50	7	<2	1	<1	<5	<10	<.01
139697 Duplicate		50 56	68.1	60.6	184	>10000	8216	24	95	8	62.8	<5	353	68	3.44	600	<10	45	152	22	161	<20	16	0.23	0.43	3.53	<.01	0.07	24	6	4	<1	<1	<5	<10	<.01
139700 Duplicate		72	53.7	43.3	373	6581	>10000	22	67	3	119.2	<5	706	148	4.10	922	<10	28	52	33	296	<20	12	0.13	0.71	>10.00	<.01	0.04	62	4	7	<1	1	<5	<10	<.01
139704 Prep Duplicate		1931 1975	153.7	101.3	858	>10000	>10000	4	10	<1	491.8	6	5804	580	>10.00	1499	24	7	83	<1	652	<20	8	<.01	0.02	4.51	<.01	0.02	27	3	22	<1	<1	<5	<10	<.01
			134.2	104.5	873	>10000	>10000	4	10	<1	506.9	<5	6485	580	>10.00	1461	23	6	60	<1	668	<20	7	<.01	0.03	5.04	<.01	0.02	28	3	21	<1	<1	<5	<10	<.01
139709 Duplicate		18	3.6	4.0	17	457	651	2	2	<1	4.2	<5	32	8	0.50	476	<10	16	1	3	<20	<20	3	0.08	9.39	>10.00	0.01	0.02	90	3	<2	5	12	<5	<10	<.01



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SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT	Sn PPM
139695		9	0.02	0.23		
Duplicate			0.02			
139697		11	1.36	1.05		
Duplicate		10				
139700		5	0.84	2.80		
Duplicate						
139704		<1	2.82	9.62		786
Prep Duplicate		<1	2.73	9.36		
Duplicate			2.99	9.70		
139709		<1	0.06	0.08		
Duplicate			0.06			



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139701		0.5	7.01
139702		0.7	5.68
139703		<.5	5.11
139704		0.6	10.50
139705		<.5	81.90



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STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
BCC GEOCHEM STD 5		<.5	0.14
Number of Analyses		1	1
Mean Value		0.3	0.14
Standard Deviation		-	-
Accepted Value		-	-



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139705		<.5	81.90
Duplicate		<.5	83.00



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02189.0 (COMPLETE)

PROJECT: SILVERTIP

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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT
139711		<5	2.0	2.1	57	288	2619	3	43	6	7.5	<5	117	10	2.21	899	<10	60	249	18	<20	<20	2	0.22	1.34	3.41	<.01	0.10	60	7	<2	1	2	<5	<10	<.01
139712		69	6.1	7.2	129	1184	7802	2	34	4	43.5	<5	505	15	5.24	668	<10	31	260	14	38	<20	1	0.25	0.62	9.33	<.01	0.12	51	4	4	<1	2	<5	<10	<.01
139713		6	1.3	0.9	30	64	428	20	61	7	2.3	<5	42	11	1.58	198	<10	78	88	29	<20	<20	2	0.39	0.42	4.73	<.01	0.14	44	8	<2	1	3	<5	<10	<.01
139714		<5	1.2	1.0	5	20	30	3	12	1	0.2	<5	36	15	4.96	819	<10	61	7	6	<20	<20	2	0.02	0.49	>10.00	<.01	<.01	139	3	<2	<1	3	<5	<10	<.01
139715		<5	1.2	0.8	1	9	16	4	2	<1	<0.2	<5	12	<5	0.82	707	<10	79	<1	3	<20	<20	2	0.01	0.41	>10.00	<.01	<.01	155	4	<2	<1	3	<5	<10	<.01
139770		68	2.3	1.9	<1	253	1332	<1	15	7	14.6	39	3129	23	>10.00	23	<10	9	119	<1	<20	<20	<1	0.13	<.01	0.14	<.01	0.06	3	1	17	<1	<1	<5	<10	<.01
139771		8	2.4	2.8	30	314	2414	<1	69	24	8.3	<5	131	15	3.29	786	<10	37	116	18	<20	<20	3	0.70	0.27	1.78	<.01	0.26	18	11	3	2	2	<5	<10	<.01
139772		40	80.4	76.4	944	5161	>10000	<1	22	9	468.2	151	1793	197	>10.00	390	<10	11	126	3	125	<20	<1	0.23	<.01	0.07	<.01	0.10	2	2	39	<1	<1	<5	<10	<.01
139773		13	18.0	15.3	74	1935	>10000	<1	42	21	144.6	34	1489	47	>10.00	590	<10	17	236	7	<20	<20	<1	0.41	0.03	0.92	<.01	0.20	14	8	15	1	<1	<5	<10	<.01
139774		25	18.9	18.4	212	1582	>10000	<1	48	10	122.0	83	1327	112	>10.00	241	<10	7	108	7	26	<20	<1	0.33	0.09	0.22	<.01	0.16	5	4	12	<1	<1	<5	<10	<.01
139775		10	20.1	23.4	308	2393	>10000	<1	75	14	101.0	103	354	79	4.27	299	<10	15	176	18	243	<20	3	0.46	0.03	0.14	<.01	0.21	12	6	11	<1	1	<5	<10	<.01
139776		28	35.9	35.1	536	6045	>10000	<1	19	25	189.3	275	2529	911	>10.00	157	<10	6	114	3	172	<20	1	0.12	<.01	0.05	<.01	0.06	8	2	17	<1	<1	<5	<10	<.01
139777		10	27.1	27.6	301	2888	>10000	<1	52	12	307.6	84	588	113	6.27	407	<10	11	82	9	112	<20	2	0.39	0.04	0.29	<.01	0.19	11	4	15	1	<1	<5	<10	<.01
139778		23	68.7	66.0	1721	6348	>10000	<1	36	25	436.0	392	1936	387	>10.00	344	<10	25	171	6	51	<20	<1	0.16	<.01	0.04	<.01	0.08	4	1	16	<1	<1	<5	<10	<.01
139779		6	4.1	4.8	68	338	6204	5	54	10	30.0	27	472	21	5.47	406	<10	40	82	16	<20	<20	<1	1.52	0.09	2.57	<.01	0.22	8	9	7	1	2	<5	<10	<.01
139780		11	6.1	4.5	81	352	6728	6	57	11	34.5	22	438	19	5.13	445	<10	33	131	23	<20	<20	<1	1.72	0.13	2.65	<.01	0.28	10	12	7	2	3	<5	<10	<.01
139781		<5	7.7	4.1	30	432	3408	6	70	4	14.9	8	203	11	2.72	310	<10	23	127	25	<20	<20	7	1.05	0.04	5.69	0.01	0.19	84	23	5	2	4	<5	<10	<.01
139782		13	30.1	29.3	72	2563	>10000	5	77	8	73.4	51	528	16	5.44	2349	<10	18	155	20	37	<20	15	0.49	0.12	>10.00	<.01	0.19	188	38	8	1	3	<5	<10	<.01
139783		16	12.9	11.3	42	644	>10000	<1	60	12	67.1	102	1312	34	>10.00	399	<10	7	106	12	<20	<20	<1	0.42	0.03	0.29	<.01	0.14	20	6	9	<1	<1	<5	<10	<.01
139784		16	18.3	16.5	42	3468	4093	<1	57	12	20.9	22	1039	46	9.00	117	<10	10	136	17	<20	<20	3	0.61	0.04	0.17	<.01	0.24	15	6	8	1	<1	<5	<10	<.01
139785		<5	1.3	1.2	10	38	240	8	23	3	1.2	<5	27	11	2.01	351	<10	91	20	13	<20	<20	2	0.10	0.45	>10.00	<.01	0.04	68	4	<2	<1	3	<5	<10	<.01
139786		<5	<0.7	<0.2	2	19	22	8	4	<1	<0.2	<5	17	<5	2.98	133	<10	33	<1	1	<20	<20	1	<.01	0.25	>10.00	<.01	<.01	213	3	<2	<1	3	<5	<10	<.01
139787		276	291.4	>200.0	548	>10000	>10000	<1	7	2	82.2	360	3369	286	>10.00	799	<10	5	83	<1	39	<20	1	<.01	0.21	4.69	<.01	<.01	24	2	16	<1	<1	<5	<10	<.01



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02189.0 (COMPLETE)

DATE RECEIVED: 25-AUG-97

DATE PRINTED: 4-SEP-97 PAGE 18(2/ 8)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT
139711		7	0.03	0.30	
139712		7	0.15	1.34	
139713		9	<.01	0.03	
139714		2	<.01	<0.01	
139715		<1	<.01	<0.01	
139770		11	0.04	0.20	
139771		8	0.03	0.28	
139772		8	0.72	16.95	
139773		12	0.26	4.85	
139774		13	0.20	3.67	
139775		10	0.26	2.69	
139776		10	0.84	6.52	
139777		11	0.32	8.58	
139778		8	0.85	14.92	
139779		14	0.04	0.83	
139780		11	0.04	0.95	
139781		3	0.04	0.43	
139782		6	0.30	2.21	
139783		19	0.08	1.82	
139784		13	0.40	0.50	
139785		3	<.01	0.02	
139786		1	<.01	<0.01	
139787		7	4.56	2.21	



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02189.0 (COMPLETE)

DATE RECEIVED: 25-AUG-97 DATE PRINTED: 4-SEP-97 PROJECT: SILVERTIP
PAGE 2A(3/ 8)

STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT		
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	6	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<1	<5	<10	<.01	
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		2	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	-	0.1	0.5	1	6	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.01	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	.01	<.01	
Gannet Standard		372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD		-	8.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	8.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 4		-	-	1.1	255	32	251	2	40	8	1.0	<5	30	<5	2.81	521	<10	55	69	7	<20	<20	4	0.86	1.22	1.45	0.05	0.14	34	3	<2	6	1	<5	<10	<.01		
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		-	-	1.1	255	32	251	2	40	8	1.0	3	30	3	2.81	521	5	55	69	7	10	10	4	0.86	1.22	1.45	0.05	0.14	34	3	1	6	1	3	5	.005		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value		-	-	0.8	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1	0.01		
FA SYNTHETIC STD		-	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02189.0 (COMPLETE)

DATE RECEIVED: 25-AUG-97

DATE PRINTED: 4-SEP-97 PAGE 2B(4/ 8)

PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT
ANALYTICAL BLANK		<1	-	-	-
ANALYTICAL BLANK		-	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.5	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		.01	<.01	<.0001	<.001

Gannet Standard	-	-	-	-
Number of Analyses	-	-	-	-
Mean Value	-	-	-	-
Standard Deviation	-	-	-	-
Accepted Value	-	-	-	-

FA SYNTHETIC STD	-	-	-	-
Number of Analyses	-	-	-	-
Mean Value	-	-	-	-
Standard Deviation	-	-	-	-
Accepted Value	-	-	-	-

BCC GEOCHEM STD 4	11	-	-	-
Number of Analyses	1	-	-	-
Mean Value	11	-	-	-
Standard Deviation	-	-	-	-
Accepted Value	8	-	-	-

FA SYNTHETIC STD	-	-	-	-
Number of Analyses	-	-	-	-
Mean Value	-	-	-	-
Standard Deviation	-	-	-	-
Accepted Value	-	-	-	-



Intertek Testing Services

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PROJECT: SILVERTIP

STANDARD	ELEMENT	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti	
NAME	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PCT		
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard	2406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	2406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services
Bondar Clegg

**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.

REPORT: V97-02189.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 25-AUG-97

DATE PRINTED: 4-SEP-97

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STANDARD NAME	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Zn PCT
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CANMET CERTIFIED STD	-	4.32	>15.00	-	-
Number of Analyses	-	1	1	-	-
Mean Value	-	4.32	15.00	-	-
Standard Deviation	-	-	-	-	-
Accepted Value	-	4.33	19.02	19.02	-

Garnet Standard	-	-	-	-	-
Number of Analyses	-	-	-	-	-
Mean Value	-	-	-	-	-
Standard Deviation	-	-	-	-	-
Accepted Value	-	-	-	-	-



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

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PROJECT: SILVERTIP

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SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT
139711 Duplicate		<5	2.0	2.1	57	288	2619	3	43	6	7.5	<5	117	10	2.21	899	<10	60	249	18	<20	<20	2	0.22	1.34	3.41	<.01	0.10	60	7	<2	1	2	<5	<10	<.01
139770 Duplicate		68	2.3 2.7	1.9	<1	253	1332	<1	15	7	14.6	39	3129	23	>10.00	23	<10	9	119	<1	<20	<20	<1	0.13	<.01	0.14	<.01	0.06	3	1	17	<1	<1	<5	<10	<.01
139774 Duplicate		25	18.9	18.4	212	1582	>10000	<1	48	10	122.0	83	1327	112	>10.00	241	<10	7	108	7	26	<20	<1	0.33	0.09	0.22	<.01	0.16	5	4	12	<1	<1	<5	<10	<.01
		25		18.7	219	1604	>10000	<1	48	11	125.4	84	1344	113	>10.00	249	<10	8	112	8	26	<20	<1	0.36	0.10	0.23	<.01	0.18	6	4	13	<1	<1	<5	<10	<.01
139776 Prep Duplicate		28	35.9	35.1	536	6045	>10000	<1	19	25	189.3	275	2529	911	>10.00	157	<10	6	114	3	172	<20	1	0.12	<.01	0.05	<.01	0.06	8	2	17	<1	<1	<5	<10	<.01
		24	37.2	35.0	522	6806	>10000	<1	23	28	174.8	294	2683	1073	>10.00	148	<10	5	152	5	166	<20	1	0.16	<.01	0.05	<.01	0.08	8	2	17	<1	<1	<5	<10	<.01
139779 Duplicate		6	4.1	4.8	68	338	6204	5	54	10	30.0	27	472	21	5.47	406	<10	40	82	16	<20	<20	<1	1.52	0.09	2.57	<.01	0.22	8	9	7	1	2	<5	<10	<.01
139782 Duplicate		13	30.1 28.7	29.3	72	2563	>10000	5	77	8	73.4	51	528	16	5.44	2349	<10	18	155	20	37	<20	15	0.49	0.12	>10.00	<.01	0.19	188	38	8	1	3	<5	<10	<.01
139784 Duplicate		16	18.3	16.5	42	3468	4093	<1	57	12	20.9	22	1039	46	9.00	117	<10	10	136	17	<20	<20	3	0.61	0.04	0.17	<.01	0.24	15	6	8	1	<1	<5	<10	<.01



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02189.0 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Zr	Pb	Zn	Zn
		PPM	PCT	PCT	PCT
139711		7	0.03	0.30	
Duplicate			0.03	0.31	
139770		11	0.04	0.20	
Duplicate					
139774		13	0.20	3.67	
Duplicate		14	0.20	3.58	
139776		10	0.84	6.52	
Prep Duplicate		10	0.97	6.03	
139779		14	0.04	0.83	
Duplicate			0.04	0.83	
139782		6	0.30	2.21	
Duplicate					
139784		13	0.40	0.50	
Duplicate			0.40	0.50	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02282.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 02-SEP-97 DATE PRINTED: 17-SEP-97 PAGE 1A(1/ 6)

SAMPLE NUMBER	ELEMENT Au30		Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM
139716	22	2.4	1.1	8	194	987	4	8	<1	4.9	18	71	<5	0.46	2237	<10	30	3	6	<20	<20	3	0.03	0.21	>10.00	<.01	<.01	122	6	<2	<1	11	<5	<10
139717	2676	351.1	>200.0	1552	>10000	>10000	13	81	25	620.1	7	9111	552	>10.00	3190	31	4	62	<1	1188	<20	6	<.01	0.06	4.87	<.01	0.02	15	4	18	<1	<1	<5	<10
139718	916	52.5	63.6	325	>10000	>10000	18	19	5	144.3	21	3863	113	9.80	6168	15	28	14	4	205	<20	21	0.01	0.26	>10.00	<.01	0.01	126	11	<2	<1	9	<5	<10
139719	398	160.3	20.1	91	3362	>10000	5	14	3	102.8	16	2749	93	>10.00	9007	<10	5	22	<1	63	<20	18	<.01	0.11	>10.00	<.01	0.01	66	12	<2	<1	5	<5	<10
139720	754	104.6	107.6	439	>10000	>10000	21	35	4	213.2	13	5619	783	>10.00	3023	17	12	76	<1	616	<20	11	0.01	0.09	>10.00	<.01	0.02	33	5	<2	<1	<1	<5	<10
139721	954	200.3	141.8	324	>10000	>10000	11	14	2	185.0	10	3901	229	7.71	4275	17	5	49	1	300	<20	7	0.02	0.10	>10.00	<.01	<.01	29	5	<2	<1	6	<5	<10
139722	1054	192.4	176.6	978	>10000	>10000	13	17	1	261.6	9	4282	484	>10.00	2975	22	18	74	<1	588	<20	9	0.03	0.19	>10.00	<.01	0.02	54	4	8	<1	<1	<5	<10
139723	1264	266.0	>200.0	1142	>10000	>10000	22	22	<1	604.6	7	6212	341	>10.00	2204	36	5	79	<1	656	<20	9	0.02	0.10	3.63	<.01	0.03	15	2	21	<1	<1	<5	<10
139724	948	233.4	>200.0	1074	>10000	>10000	22	25	<1	563.7	8	5901	309	>10.00	2343	37	9	92	<1	637	<20	7	0.03	0.14	4.11	<.01	0.03	19	2	20	<1	<1	<5	<10
139725	612	213.5	191.0	799	>10000	>10000	42	53	5	296.1	12	3411	409	>10.00	5281	24	38	104	18	544	<20	10	0.06	1.84	>10.00	<.01	0.02	56	3	10	<1	3	<5	<10
139726	284	43.4	45.8	336	9526	>10000	26	61	10	80.9	10	1377	166	8.24	5490	<10	71	68	25	219	<20	5	0.09	3.34	>10.00	<.01	0.04	87	5	<2	1	8	<5	<10
139727	60	18.8	20.3	106	4661	5935	22	114	25	22.9	<5	283	54	4.97	1753	<10	47	124	27	69	<20	3	0.22	1.37	4.83	<.01	0.10	40	5	<2	1	4	<5	<10
139728	30	4.7	4.6	42	830	3936	15	113	27	11.2	5	194	26	4.51	2058	<10	79	113	25	25	<20	4	0.24	2.49	9.28	<.01	0.10	47	5	<2	2	6	<5	<10
139729	48	3.5	3.4	50	553	9279	18	169	49	14.6	<5	177	19	5.67	2996	<10	62	132	32	28	<20	4	0.31	0.85	1.65	<.01	0.13	29	7	<2	2	3	<5	<10
139730	20	2.6	2.4	37	176	>10000	20	179	57	14.2	<5	122	17	5.67	3399	<10	69	171	38	<20	<20	5	0.37	0.74	1.45	<.01	0.15	28	10	<2	2	3	<5	<10
139731	10	2.7	2.4	42	119	6525	28	144	32	8.7	<5	75	17	3.74	1614	<10	79	138	43	<20	<20	6	0.33	0.49	1.01	<.01	0.14	20	7	<2	2	3	<5	<10
139732	12	2.8	2.6	39	229	1499	27	101	13	9.3	<5	73	17	2.68	512	<10	78	169	48	<20	<20	4	0.34	0.48	0.96	<.01	0.14	18	3	<2	2	5	<5	<10
139733	120	10.8	11.2	103	2171	>10000	18	125	39	104.0	<5	1324	20	6.01	2565	<10	37	99	22	68	<20	3	0.22	0.52	6.94	<.01	0.09	37	8	<2	1	3	<5	<10
139734	<5	<0.7	<0.2	5	70	101	1	2	<1	0.4	11	5	<5	0.41	470	<10	18	1	3	<20	<20	2	0.09	>10.00	>10.00	0.01	0.02	93	3	<2	5	16	<5	<10
139735	<5	<0.7	<0.2	2	45	506	<1	5	2	3.9	20	12	<5	0.17	1000	<10	32	<1	2	<20	<20	2	0.02	0.61	>10.00	<.01	<.01	225	3	<2	<1	11	<5	<10



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02282.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 02-SEP-97 DATE PRINTED: 17-SEP-97 PAGE 1B(2/ 6)

SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PPM
139716		<.01	<1	0.03	0.10	
139717		<.01	<1	8.31	8.92	1418
139718		<.01	<1	0.95	2.13	262
139719		<.01	<1	0.41	1.95	102
139720		<.01	<1	2.42	3.02	534
139721		<.01	<1	4.41	3.90	709
139722		<.01	<1	3.47	5.06	614
139723		<.01	<1	5.69	12.28	588
139724		<.01	<1	4.81	11.14	511
139725		<.01	<1	4.51	5.36	477
139726		<.01	<1	1.09	1.54	460
139727		<.01	5	0.47	0.65	
139728		<.01	4	0.09	0.43	
139729		<.01	6	0.05	1.04	
139730		<.01	7	0.01	1.71	
139731		<.01	8	<.01	0.64	
139732		<.01	9	0.02	0.15	
139733		<.01	4	0.23	1.62	
139734		<.01	<1	<.01	<0.01	
139735		<.01	<1	<.01	0.04	



Intertek Testing Services

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Geochemical Lab Report

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DATE RECEIVED: 02-SEP-97

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PROJECT: SILVERTIP
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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
ANALYTICAL BLANK		<5	-	<0.2	<1	2	1	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	<10	
Number of Analyses		1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	-	0.1	0.5	2	1	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	0.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.005	.01	.01	<.01	<.0001	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	
Gannet Standard		191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5		-	-	0.9	97	9	85	2	38	22	<0.2	<5	10	<5	5.28	797	<10	220	54	137	<20	<20	8	3.55	1.94	1.18	0.07	0.35	44	9	<2	28	15	12	<10	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.9	97	9	85	2	38	22	0.1	3	10	3	5.28	797	5	220	54	137	10	10	8	3.55	1.94	1.18	0.07	0.35	44	9	1	28	15	12	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18	1	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorspar Granite		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02282.0 (COMPLETE)

DATE RECEIVED: 02-SEP-97

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PROJECT: SILVERTIP
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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<.01	<1	-	-	-
Number of Analyses		1	1	-	-	-
Mean Value		.005	0.5	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		<.01	.01	<.01	<.0001	.005
Gannet Standard		-	-	-	-	-
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	-
BCC GEOCHEM STD 5		0.23	14	-	-	-
Number of Analyses		1	1	-	-	-
Mean Value		0.23	14	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	9	-	-	-
CANMET CERTIFIED STD		-	-	4.28	>15.00	-
Number of Analyses		-	-	1	1	-
Mean Value		-	-	4.28	15.00	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	4.33	19.02	-
Fluorspar Granite		-	-	-	-	<4
Number of Analyses		-	-	-	-	1
Mean Value		-	-	-	-	2
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	3
Lithium Ore		-	-	-	-	1959
Number of Analyses		-	-	-	-	1
Mean Value		-	-	-	-	1959
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	-	1900



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	AL30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
139716 Duplicate		22	2.4	1.1	8	194	987	4	8	<1	4.9	18	71	<5	0.46	2237	<10	30	3	6	<20	<20	3	0.03	0.21	>10.00	<.01	<.01	122	6	<2	<1	11	<5	<10
139718 Duplicate		916 974	52.5	63.6 53.9	325 278	>10000 8420	>10000	18 15	19 16	5 4	144.3 121.1	21 16	3863 3152	113 93	9.80 8.72	6168 5344	15 10	28 24	14 11	4 3	205 169	<20 <20	21 18	0.01 0.01	0.26 0.22	>10.00 >10.00	<.01 <.01	0.01 0.01	124 109	11 10	<2 <2	<1 <1	9 6	<5 <5	<10 <10
139719 Duplicate		398	160.3	20.1	91	3362	>10000	5	14	3	102.8	16	2749	93	>10.00	9007	<10	5	22	<1	63	<20	18	<.01	0.11	>10.00	<.01	0.01	66	12	<2	<1	5	<5	<10
139721 Duplicate		954	200.3 221.9	141.8	324	>10000	>10000	11	14	2	185.0	10	3901	229	7.71	4275	17	5	49	1	300	<20	7	0.02	0.10	>10.00	<.01	<.01	29	5	<2	<1	6	<5	<10
139725 Duplicate		612	213.5	191.0	799	>10000	>10000	42	53	5	296.1	12	3411	409	>10.00	5281	24	38	104	18	544	<20	10	0.06	1.84	>10.00	<.01	0.02	56	3	10	<1	3	<5	<10
139726 Duplicate		284	43.4 46.1	45.8	336	9526	>10000	26	61	10	80.9	10	1377	166	8.24	5490	<10	71	68	25	219	<20	5	0.09	3.34	>10.00	<.01	0.04	87	5	<2	1	8	<5	<10
139728 Prep Duplicate		30 38	4.7	4.6 4.2	42 38	830 704	3936 3295	15 14	113 98	27 23	11.2 9.3	5 5	194 163	26 23	4.51 3.91	2058 1774	<10 <10	79 100	113 99	25 21	25 22	<20 <20	4 3	0.24 0.20	2.49 2.24	9.28 8.35	<.01 <.01	0.10 0.09	47 44	5 5	<2 <2	2 2	6 5	<5 <5	<10 <10
139730 Duplicate		20	2.6	2.4	37	176	>10000	20	179	57	14.2	<5	122	17	5.67	3399	<10	69	171	38	<20	<20	5	0.37	0.74	1.45	<.01	0.15	28	10	<2	2	3	<5	<10
139735 Duplicate		<5	<0.7	<0.2 <0.2	2 1	45 49	506 531	<1 <1	5 5	2 2	3.9 4.3	20 21	12 14	<5 <5	0.17 0.18	1000 1091	<10 <10	32 34	<1 <1	2 2	<20 <20	<20 <20	2 2	0.02 0.02	0.61 0.67	>10.00 >10.00	<.01 <.01	<.01 <.01	225 251	3 4	<2 <2	<1 <1	11 14	<5 <5	<10 <10



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02282.0 (COMPLETE)

PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PPM
139716		<.01	<1	0.03	0.10	
Duplicate				0.03	0.10	
139718		<.01	<1	0.95	2.13	262
Duplicate		<.01	<1			
139719		<.01	<1	0.41	1.95	102
Duplicate						117
139721		<.01	<1	4.41	3.90	709
Duplicate						
139725		<.01	<1	4.51	5.36	477
Duplicate				4.50	5.42	
139726		<.01	<1	1.09	1.54	460
Duplicate						
139728		<.01	4	0.09	0.43	
Prep Duplicate		<.01	4	0.08	0.38	
139730		<.01	7	0.01	1.71	
Duplicate				0.02	1.75	
139735		<.01	<1	<.01	0.04	
Duplicate		<.01	<1	<.01	0.05	



Intertek Testing Services
Bondar Clegg

**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02282.1 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139717	1.1	9.92	
139718	0.5	5.21	
139719	<.5	2.00	
139720	0.8	8.78	
139721	0.6	12.90	
139722	0.7	24.50	
139723	0.8	54.70	
139724	0.6	47.50	
139725	<.5	16.10	
139726	<.5	3.76	

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02282.1 (COMPLETE)

DATE RECEIVED: 02-SEP-97 DATE PRINTED: 3-OCT-97 PAGE 2 OF 3

PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
BCC GEOCHEM STD 5	<.5	0.08	
Number of Analyses	1	1	
Mean Value	0.3	0.08	
Standard Deviation	-	-	
Accepted Value	-	-	

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02282.1 (COMPLETE)

DATE RECEIVED: 02-SEP-97 DATE PRINTED: 3-OCT-97 PAGE 3 OF 3

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139717	1.1	9.92	
Prep Duplicate	0.7	9.23	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02281.0 (COMPLETE)

DATE RECEIVED: 02-SEP-97

DATE PRINTED: 23-SEP-97

PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT AL30		AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM
140979	238	67.2	55.4	768	>10000	>10000	13	97	4	76.5	6	3568	206	>10.00	490	<10	162	10	14	40	<20	6	0.14	0.01	0.14	<.01	0.02	6	9	9	<1	<1	<5	
140980	67	10.7	13.5	1586	>10000	9913	11	135	19	23.1	202	2350	107	>10.00	1531	<10	582	8	15	61	<20	3	0.55	0.02	0.07	<.01	0.04	6	21	33	1	<1	<5	
139736	13	<0.7	2.5	<1	61	1475	2	15	3	0.9	<5	31	<5	0.67	2203	<10	192	<1	11	<20	<20	3	0.01	0.20	>10.00	<.01	<.01	169	4	<2	<1	4	<5	
139737	2281	113.7	93.4	271	>10000	>10000	3	27	5	404.0	<5	7979	1225	>10.00	1020	<10	<1	95	1	1094	<20	38	<.01	<.01	0.72	<.01	<.01	4	3	22	<1	<1	<5	
139738	156	12.8	14.4	27	2753	4695	2	5	<1	25.0	<5	586	34	1.89	2113	<10	32	4	6	47	<20	7	<.01	0.12	>10.00	<.01	<.01	110	4	<2	<1	3	<5	
139739	1723	344.3	>200.0	648	>10000	>10000	5	54	15	548.1	<5	5878	1812	>10.00	1610	<10	3	90	6	>2000	<20	23	0.03	0.01	0.80	<.01	0.02	4	6	25	<1	<1	<5	
139740	1919	54.3	48.2	421	9355	>10000	4	28	5	323.3	<5	5985	301	>10.00	803	<10	<1	138	<1	300	<20	4	<.01	<.01	0.77	<.01	<.01	3	1	21	<1	<1	<5	
139741	1370	23.7	25.5	259	2498	>10000	3	19	3	267.1	<5	4805	176	>10.00	734	<10	<1	155	<1	175	<20	3	<.01	<.01	0.96	<.01	<.01	3	<1	14	<1	<1	<5	
139742	2102	27.7	23.0	370	2747	>10000	4	20	5	357.6	<5	5909	121	>10.00	814	<10	<1	77	<1	245	<20	2	<.01	<.01	0.77	<.01	<.01	3	<1	21	<1	<1	<5	
139743	1588	124.9	91.1	517	7236	>10000	4	22	3	635.6	<5	4015	366	>10.00	861	<10	<1	109	<1	347	<20	3	<.01	<.01	0.43	<.01	<.01	2	<1	44	<1	<1	<5	
139744	252	78.8	63.2	141	9819	9635	7	23	2	49.1	<5	1170	908	3.90	675	<10	11	151	1	447	<20	3	<.01	<.01	3.22	<.01	<.01	8	1	<2	1	<1	<5	
139745	1835	179.2	140.1	787	>10000	>10000	4	24	5	335.9	<5	7368	1404	>10.00	739	<10	<1	139	<1	1241	<20	15	<.01	<.01	0.52	<.01	<.01	3	2	17	<1	<1	<5	
139746	2117	176.5	126.4	840	>10000	>10000	3	26	7	664.8	<5	7381	1366	>10.00	979	<10	<1	74	<1	839	<20	7	<.01	<.01	0.28	<.01	<.01	2	1	38	<1	<1	<5	
139747	1955	129.9	99.4	767	8078	>10000	3	26	6	735.3	<5	6717	566	>10.00	981	<10	<1	92	<1	548	<20	9	<.01	<.01	0.21	<.01	<.01	2	1	42	<1	<1	<5	
139748	3911	221.8	171.4	730	>10000	>10000	3	16	3	414.8	<5	7052	942	>10.00	461	<10	<1	72	<1	600	<20	5	<.01	<.01	0.20	<.01	<.01	2	<1	25	<1	<1	<5	
139749	2398	192.6	134.1	703	>10000	>10000	7	30	7	487.1	<5	6565	279	>10.00	907	<10	<1	90	<1	471	<20	15	<.01	<.01	0.59	<.01	<.01	3	2	29	<1	<1	<5	
139750	1130	521.1	>200.0	2144	>10000	>10000	8	27	7	796.4	<5	4699	445	>10.00	1231	20	<1	56	2	1539	<20	51	0.02	0.03	0.13	<.01	<.01	3	2	64	<1	<1	<5	
139788	7	3.3	4.3	12	426	1215	2	1	<1	5.2	<5	31	<5	0.28	400	<10	102	<1	3	<20	<20	2	<.01	0.21	>10.00	<.01	<.01	151	2	<2	<1	4	<5	
139789	6	<0.7	1.8	6	62	189	3	21	<1	0.6	<5	31	10	8.30	436	<10	11	4	5	<20	<20	2	0.01	4.09	>10.00	<.01	<.01	158	2	<2	2	4	<5	
139790	<5	<0.7	2.8	<1	114	330	2	<1	<1	1.2	<5	16	<5	0.12	447	<10	68	<1	2	<20	<20	2	<.01	0.41	>10.00	<.01	<.01	133	2	<2	1	5	<5	
139791	7	<0.7	<0.2	2	1460	>10000	7	543	284	605.2	<5	215	225	>10.00	15870	<10	681	1	8	<20	<20	15	0.12	1.18	3.09	<.01	0.01	23	80	<2	1	<1	<5	
139801	<5	<0.7	1.8	2	31	314	2	2	<1	1.0	<5	8	<5	0.39	481	<10	12	<1	3	<20	<20	3	0.07	9.03	>10.00	0.01	0.02	78	3	<2	4	16	<5	
139802	854	56.4	52.1	341	9764	>10000	16	64	12	190.7	<5	3044	83	>10.00	913	<10	2	166	26	238	<20	10	0.21	0.37	1.21	<.01	0.09	16	3	10	<1	<1	<5	
139803	48	6.3	6.0	52	1068	6268	14	81	15	26.3	<5	261	17	2.92	708	<10	30	176	33	30	<20	4	0.28	0.36	0.75	<.01	0.12	24	3	<2	1	<1	<5	
139804	12	5.2	4.7	40	1111	3662	12	69	13	12.6	<5	103	14	2.48	699	<10	39	169	31	<20	<20	4	0.26	0.47	0.96	<.01	0.11	33	3	<2	1	<1	<5	
139805	656	37.3	35.9	172	6682	>10000	10	49	10	139.0	<5	2238	52	9.39	891	<10	4	117	14	112	<20	4	0.14	1.09	4.37	<.01	0.06	27	2	6	<1	<1	<5	
139806	<5	<0.7	2.6	<1	30	165	<1	2	<1	0.4	<5	13	<5	0.08	804	<10	30	<1	2	<20	<20	2	<.01	0.41	>10.00	<.01	<.01	183	3	<2	<1	5	<5	
139807	9	<0.7	0.5	54	372	2640	53	73	4	5.4	<5	632	231	9.93	45	<10	976	84	102	<20	<20	14	0.54	0.03	0.19	<.01	0.18	44	22	<2	2	<1	<5	
139808	13	<0.7	2.5	30	23	1631	2	28	<1	10.0	<5	48	<5	3.38	18850	<10	285	6	15	<20	<20	3	0.10	0.13	>10.00	<.01	0.03	581	7	<2	<1	3	<5	
139809	28	27.6	28.5	216	1985	4107	15	149	8	15.2	<5	147	10	8.03	4282	<10	>2000	88	100	<20	<20	19	3.00	0.03	0.33	0.02	0.09	28	24	3	11	3	<5	



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SAMPLE NUMBER	Ta		Ti		Zr		Pb		Zn		Zn	Sn
	UNITS	PPM	PCT	PPM	PCT	PPM	PCT	PCT	PCT	PPM		
140979	<10	<.01	<1	4.21	2.35							
140980	<10	<.01	<1	3.62	1.55							
139736	<10	<.01	<1	<0.01	0.18							
139737	<10	<.01	<1	2.65	9.00						1700	
139738	<10	<.01	<1	0.43	0.59						130	
139739	<10	<.01	1	7.84	13.42						3063	
139740	<10	<.01	<1	1.21	6.96						460	
139741	<10	<.01	<1	0.36	5.65						246	
139742	<10	<.01	<1	0.43	8.72						453	
139743	<10	<.01	<1	2.21	16.35						591	
139744	<10	<.01	<1	1.41	1.03						1045	
139745	<10	<.01	<1	3.48	7.15						2003	
139746	<10	<.01	<1	2.91	15.63						1523	
139747	<10	<.01	<1	2.47	17.67						930	
139748	<10	<.01	<1	5.38	9.29						942	
139749	<10	<.01	<1	4.81	12.24						1260	
139750	<10	<.01	<1	12.96	21.73						1542	
139788	<10	<.01	<1	0.07	0.14							
139789	<10	<.01	<1	0.01	0.02							
139790	<10	<.01	<1	0.02	0.03							
139791	<10	<.01	4	0.22	17.15							
139801	<10	<.01	<1	<0.01	0.02							
139802	<10	<.01	4	1.20	3.49							
139803	<10	<.01	5	0.12	0.59							
139804	<10	<.01	5	0.13	0.35							
139805	<10	<.01	2	0.92	2.77							
139806	<10	<.01	<1	<0.01	0.01							
139807	<10	<.01	6	0.04	0.29							
139808	<10	<.01	1	<0.01	0.21							
139809	<10	<.01	13	0.23	0.42							



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
139810		71	144.9	133.1	322	>10000	6293	24	130	44	11.4	<5	816	81	>10.00	7331	<10	93	90	70	<20	<20	15	1.30	0.02	0.12	0.01	0.04	19	13	<2	12	<1	<5
139811		9	10.6	10.6	60	378	>10000	3	54	14	98.0	<5	107	48	4.60	4240	<10	157	2	6	<20	<20	7	0.06	8.15	>10.00	0.01	<.01	113	11	<2	4	10	<5
139812		186	188.4	152.5	1076	>10000	>10000	24	134	39	85.4	<5	1625	141	>10.00	8677	<10	492	49	43	<20	<20	55	0.48	0.80	1.53	0.03	0.10	30	50	<2	4	<1	<5
139813		792	238.0	185.4	1086	>10000	>10000	8	12	1	262.6	53	>10000	118	>10.00	408	<10	<1	106	1	636	<20	59	0.01	0.05	0.15	<.01	<.01	6	4	14	<1	<1	<5
139814		66	13.1	10.6	158	2156	>10000	10	417	132	319.0	<5	1395	24	>10.00	9532	<10	66	12	7	23	<20	46	0.12	0.28	0.80	<.01	0.01	6	83	<2	<1	<1	<5
139815		108	24.6	17.2	331	6659	>10000	20	357	38	304.4	<5	2332	233	>10.00	3221	<10	6	9	7	25	<20	27	0.37	0.04	0.45	<.01	0.02	7	62	<2	<1	<1	<5
139816		6	<0.7	2.4	<1	26	254	<1	2	<1	1.0	<5	11	<5	0.10	690	<10	202	1	2	<20	<20	2	0.01	0.70	>10.00	<.01	<.01	131	2	<2	<1	6	<5
139817		31	5.3	5.2	161	5179	>10000	12	181	23	612.4	<5	1445	223	>10.00	3482	<10	54	9	10	<20	<20	49	0.27	2.52	5.47	0.03	0.03	22	71	<2	2	<1	<5
139818		<5	<0.7	2.2	<1	15	157	<1	2	<1	0.4	<5	8	<5	0.08	839	<10	23	<1	2	<20	<20	2	0.01	0.63	>10.00	<.01	<.01	128	1	<2	<1	5	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Zn	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PPM
139810	<10	<.01	3	2.05	0.66				
139811	<10	<.01	<1	0.06	2.30				
139812	<10	<.01	4	1.56	2.19				
139813	<10	<.01	<1	5.52	6.41			756	
139814	<10	<.01	1	0.32	13.28				
139815	<10	<.01	3	1.06	10.98				
139816	<10	<.01	<1	<0.01	0.03				
139817	<10	<.01	3	0.75	12.48				
139818	<10	<.01	<1	<0.01	<0.01				



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STANDARD NAME	ELEMENT UNITS	Al3O3 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Nb PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
ANALYTICAL BLANK		<5	-	<0.2	<1	5	21	<1	<1	<1	<0.2	<5	<5	<5	0.01	2	<10	<1	1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	3	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	
Number of Analyses		2	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		3	-	0.1	0.5	3	12	0.5	0.5	0.5	0.1	3	3	3	0.009	1	5	0.5	1	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	
Standard Deviation		-	-	-	-	3	13	-	-	-	-	-	-	-	0.006	1	-	-	.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	0.005	1	1	0.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	
Gannet Standard	988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 6		-	-	0.4	122	14	170	3	115	27	0.5	<5	122	<5	6.73	1240	<10	5	157	41	<20	<20	2	1.74	2.36	3.36	0.01	0.04	72	3	<2	20	5	7	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value		-	-	0.4	122	14	170	3	115	27	0.5	3	122	3	6.73	1240	5	5	157	41	10	10	2	1.74	2.36	3.36	0.01	0.04	72	3	1	20	5	7	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	0.2	140	18	140	4	135	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-	24	2	6	
Gannet Standard	178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	178	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02



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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-
Number of Analyses		2	2	2	-	-	-	-	-
Mean Value		5	.005	0.5	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-
Accepted Value		.01	<.01	.01	<.001	<.0001	<.001	<.001	.005

Gannet Standard	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-

BCC GEOCHEM STD 6	<10	<.01	5	-	-	-	-	-	-
Number of Analyses	1	1	1	-	-	-	-	-	-
Mean Value	5	.005	5	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	1	.003	5	-	-	-	-	-	5

Gannet Standard	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-

CANMET CERTIFIED STD	-	-	-	4.30	>15.00	-	-	-	-
Number of Analyses	-	-	-	1	1	-	-	-	-
Mean Value	-	-	-	4.30	15.00	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	4.33	19.02	19.02	19.02	-	-



Intertek Testing Services

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Geochemical Lab Report

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REPORT: V97-02281.0 (COMPLETE)

PROJECT: SILVERTIP
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STANDARD NAME	ELEMENT UNITS	Au ₃₀ PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 5		-	-	0.6	93	21	152	2	34	16	0.6	<5	17	<5	4.66	686	<10	188	46	119	<20	<20	7	3.20	1.61	1.03	0.06	0.30	36	8	<2	24	7	10	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.6	93	21	152	2	34	16	0.6	3	17	3	4.66	686	5	188	46	119	10	10	7	3.20	1.61	1.03	0.06	0.30	36	8	1	24	7	10	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18	
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorspar Granite		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

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CLIENT: IMPERIAL METALS CORP.
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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
BCC Base Metal Ref.		-	-	-	8.40	-	-	-	-
Number of Analyses		-	-	-	1	-	-	-	-
Mean Value		-	-	-	8.40	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-
Accepted Value		-	-	-	8.28	3.04	3.04	3.04	-
BCC GEOCHEM STD 5	<10	0.20	12	-	-	-	-	-	-
Number of Analyses	1	1	1	-	-	-	-	-	-
Mean Value	5	0.20	12	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	1	-	9	-	-	-	-	-	-
CANMET SO-2 REF STD	-	-	-	-	-	-	-	-	4
Number of Analyses	-	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	-	4
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	2
Fluorspar Granite	-	-	-	-	-	-	-	-	5
Number of Analyses	-	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	-	5
Standard Deviation	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	3



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
				PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM
140979 Duplicate		238	67.2	55.4	768	>10000	>10000	13	97	4	76.5	6	3568	206	>10.00	490	<10	162	10	14	40	<20	6	0.14	0.01	0.14	<.01	0.02	6	9	9	<1	<1	<5
140980 Duplicate		67	10.7	13.5	1586	>10000	9913	11	135	19	23.1	202	2350	107	>10.00	1531	<10	582	8	15	61	<20	3	0.55	0.02	0.07	<.01	0.04	6	21	33	1	<1	<5
		67		13.8	1604	>10000	9344	11	134	19	23.3	204	2491	117	>10.00	1559	<10	493	8	15	64	<20	3	0.58	0.02	0.07	<.01	0.05	6	21	35	1	<1	<5
139738 Duplicate		156	12.8	14.4	27	2753	4695	2	5	<1	25.0	<5	586	34	1.89	2113	<10	32	4	6	47	<20	7	<.01	0.12	>10.00	<.01	<.01	110	4	<2	<1	3	<5
139743 Duplicate		1588	124.9	91.1	517	7236	>10000	4	22	3	635.6	<5	4015	366	>10.00	861	<10	<1	109	<1	347	<20	3	<.01	<.01	0.43	<.01	<.01	2	<1	44	<1	<1	<5
139748 Duplicate		3911	221.8	171.4	730	>10000	>10000	3	16	3	414.8	<5	7052	942	>10.00	461	<10	<1	72	<1	600	<20	5	<.01	<.01	0.20	<.01	<.01	2	<1	25	<1	<1	<5
139749 Prep Duplicate		2398	192.6	134.1	703	>10000	>10000	7	30	7	487.1	<5	6565	279	>10.00	907	<10	<1	90	<1	471	<20	15	<.01	<.01	0.59	<.01	<.01	3	2	29	<1	<1	<5
Duplicate		3434	179.9																															
			193.2																															
139788 Duplicate		7	3.3 3.1	4.3	12	426	1215	2	1	<1	5.2	<5	31	<5	0.28	400	<10	102	<1	3	<20	<20	2	<.01	0.21	>10.00	<.01	<.01	151	2	<2	<1	4	<5
139790 Duplicate		<5	<0.7	2.8	<1	114	330	2	<1	<1	1.2	<5	16	<5	0.12	447	<10	68	<1	2	<20	<20	2	<.01	0.41	>10.00	<.01	<.01	133	2	<2	1	5	<5
				2.8	<1	122	356	2	1	<1	1.3	<5	16	<5	0.14	451	<10	68	<1	2	<20	<20	2	<.01	0.40	>10.00	<.01	<.01	132	2	<2	1	5	<5
139803 Duplicate		48	6.3 26	6.0	52	1068	6268	14	81	15	26.3	<5	261	17	2.92	708	<10	30	176	33	30	<20	4	0.28	0.36	0.75	<.01	0.12	24	3	<2	1	<1	<5
139808 Duplicate		13	<0.7 <0.7	2.5	30	23	1631	2	28	<1	10.0	<5	48	<5	3.38	18850	<10	285	6	15	<20	<20	3	0.10	0.13	>10.00	<.01	0.03	581	7	<2	<1	3	<5
139809 Duplicate		28	27.6	28.5	216	1985	4107	15	149	8	15.2	<5	147	10	8.03	4282	<10	>2000	88	100	<20	<20	19	3.00	0.03	0.33	0.02	0.09	28	24	3	11	3	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Zn	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PPM
140979		<10	<.01	<1	4.21	2.35			
Duplicate					4.17	2.20			
140980		<10	<.01	<1	3.62	1.55			
Duplicate		<10	<.01	<1					
139738		<10	<.01	<1	0.43	0.59			130
Duplicate									126
139743		<10	<.01	<1	2.21		16.35		591
Duplicate					2.21				
139748		<10	<.01	<1	5.38	9.29			942
Duplicate					5.32	9.22			
139749		<10	<.01	<1	4.81	12.24			1260
Prep Duplicate						12.85			
Duplicate									
139788		<10	<.01	<1	0.07	0.14			
Duplicate									
139790		<10	<.01	<1	0.02	0.03			
Duplicate		<10	<.01	<1					
139803		<10	<.01	5	0.12	0.59			
Duplicate									
139808		<10	<.01	1	<0.01	0.21			
Duplicate									
139809		<10	<.01	13	0.23	0.42			
Duplicate					0.24	0.40			



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SAMPLE NUMBER	ELEMENT UNITS	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sh	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM
139813 Duplicate		792	238.0	185.4	1086	>10000	>10000	8	12	1	262.6	53	>10000	118	>10.00	408	<10	<1	106	1	636	<20	59	0.01	0.05	0.15	<.01	<.01	6	4	14	<1	<1	<5
139818 Duplicate		<5	<0.7	2.2	<1	15	157	<1	2	<1	0.4	<5	8	<5	0.08	839	<10	23	<1	2	<20	<20	2	0.01	0.63	>10.00	<.01	<.01	128	1	<2	<1	5	<5
				2.3	2	12	108	<1	4	<1	<0.2	<5	7	<5	0.07	838	<10	22	4	2	<20	<20	2	0.01	0.63	>10.00	<.01	<.01	127	1	<2	<1	5	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Zn	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PPM
139813		<10	<.01	<1	5.52	6.41			756
Duplicate					5.48	6.44			
139818		<10	<.01	<1	<0.01	<0.01			
Duplicate		<10	<.01	<1					



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139737		3.8	7.98
139738		<.5	0.71
139739		2.4	11.50
139740		1.8	5.80
139741		1.7	4.43
139742		2.3	6.18
139743		1.7	8.27
139744		<.5	2.61
139745		2.4	6.22
139746		2.2	6.75
139747		2.1	6.35
139748		2.8	7.02
139749		2.1	9.38
139750		1.9	45.20
139813		3.2	19.50

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STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
CANMET STD SY-3		1.0	0.05
Number of Analyses		1	1
Mean Value		1.0	0.05
Standard Deviation		-	-
Accepted Value		-	-

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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139748		2.8	7.02
Prep Duplicate		2.1	6.95



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CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02377.0 (COMPLETE)

PROJECT: SILVERTIP

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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
139792		16	9.9	14.3	21	2892	1453	5	2	<1	9.4	<5	118	11	0.67	7432	<10	13	<1	3	<20	<20	16	0.01	0.15	>10.00	<.01	<.01	84	11	<2	<1	4	<5	<10
139793		301	86.5	130.8	550	8910	>10000	19	7	<1	143.8	114	6573	156	>10.00	1281	<10	<1	64	5	349	148	9	<.01	0.01	2.12	<.01	<.01	9	2	8	<1	<1	<5	<10
139794		1307	353.6	>200.0	1616	>10000	>10000	8	8	<1	465.5	<5	9688	387	>10.00	1679	20	<1	89	8	1133	345	50	0.01	0.03	3.09	<.01	<.01	10	4	53	<1	<1	<5	<10
139795		351	89.7	82.2	163	>10000	>10000	7	5	<1	74.4	<5	2775	103	7.04	5098	<10	10	26	4	122	52	15	<.01	2.52	>10.00	<.01	<.01	47	7	5	<1	2	<5	<10
139796		99	76.8	68.9	145	5857	9236	9	9	<1	45.5	<5	904	75	4.29	2600	<10	16	76	2	94	42	14	<.01	0.38	9.39	<.01	<.01	29	3	4	<1	<1	<5	<10
139797		113	120.4	109.3	229	>10000	>10000	7	5	<1	74.0	<5	797	120	2.68	4380	<10	6	40	2	147	49	15	<.01	0.09	>10.00	<.01	<.01	48	6	6	<1	<1	<5	<10
139798		85	10.6	13.0	20	829	2585	21	11	<1	15.0	<5	504	31	1.97	3912	<10	7	112	2	<20	24	13	<.01	0.08	>10.00	<.01	<.01	28	6	<2	<1	<1	<5	<10
139799		65	117.4	101.2	22	2205	1945	6	6	<1	11.2	<5	241	121	1.14	6101	<10	12	56	3	<20	<20	14	<.01	0.11	>10.00	<.01	<.01	40	8	<2	<1	2	<5	<10
139800		50	7.6	9.2	31	1179	3388	3	6	<1	18.8	<5	238	19	1.14	5354	<10	7	96	2	25	<20	12	<.01	0.11	>10.00	<.01	<.01	31	5	<2	<1	1	<5	<10
139819		5	<0.7	0.7	43	233	1014	7	18	<1	0.7	<5	128	20	7.39	34	<10	252	33	36	<20	<20	25	0.53	0.01	0.02	<.01	0.24	11	3	<2	2	<1	<5	<10
139820		6	<0.7	1.2	72	152	1084	5	18	<1	0.6	<5	127	24	8.34	40	<10	245	61	36	<20	<20	25	0.51	0.01	<0.01	<.01	0.22	9	4	<2	1	<1	<5	<10
139821		29	3.3	2.7	157	634	6283	17	183	16	7.5	<5	202	161	8.61	422	<10	1809	64	64	<20	23	10	0.59	0.02	0.03	<.01	0.16	7	22	<2	2	<1	<5	<10
139822		<5	1.3	1.8	69	254	2789	13	58	3	5.0	<5	80	81	3.37	106	<10	>2000	60	40	<20	<20	7	0.38	0.08	4.58	<.01	0.10	21	9	<2	1	<1	<5	<10
139823		<5	<0.7	3.6	<1	2	142	<1	2	<1	0.9	<5	<5	<5	0.10	167	<10	34	<1	2	<20	<20	2	<.01	0.84	>10.00	<.01	<.01	103	3	<2	<1	5	<5	<10
139824		<5	<0.7	3.3	2	39	18	<1	15	<1	<0.2	<5	10	<5	4.17	154	<10	69	<1	4	<20	<20	2	<.01	0.82	>10.00	<.01	<.01	191	3	<2	<1	3	<5	<10
139851		34	10.7	13.4	43	2512	4859	2	3	<1	26.5	<5	216	17	1.12	9426	<10	9	3	3	35	<20	19	0.01	0.34	>10.00	<.01	<.01	83	10	<2	<1	3	<5	<10
139852		745	157.6	173.9	1087	>10000	>10000	3	7	<1	504.5	<5	7303	484	>10.00	1045	29	<1	81	2	657	390	56	<.01	0.01	1.15	<.01	<.01	5	3	51	<1	<1	<5	<10
139853		839	160.2	181.2	1179	>10000	>10000	2	7	<1	685.7	<5	8015	900	>10.00	1409	11	<1	71	2	726	543	73	<.01	<.01	1.88	<.01	<.01	8	4	70	<1	<1	<5	<10
139854		<5	<0.7	2.8	10	68	151	2	1	<1	0.5	<5	19	<5	0.42	444	<10	26	<1	3	<20	<20	3	0.08	8.73	>10.00	0.01	0.02	77	3	<2	4	14	<5	<10
139855		28	16.0	16.7	73	3055	4507	2	2	<1	30.0	<5	430	14	1.79	9681	<10	4	<1	2	51	<20	34	<.01	0.10	>10.00	<.01	<.01	74	12	<2	<1	3	<5	<10
139856		9	3.6	6.8	5	432	451	1	2	<1	2.2	<5	65	<5	0.38	7856	<10	12	<1	2	<20	<20	7	<.01	0.80	>10.00	<.01	<.01	92	7	<2	<1	4	<5	<10
139857		52	2.3	4.0	8	56	1298	1	17	1	2.3	<5	23	7	>10.00	1021	<10	28	3	5	<20	<20	2	0.01	0.67	>10.00	<.01	<.01	79	2	<2	<1	<1	<5	<10
139858		<5	3.8	6.4	234	285	>10000	1	6	<1	65.9	<5	90	<5	1.01	1324	<10	30	<1	3	162	45	4	0.04	1.84	>10.00	<.01	0.02	102	3	9	1	4	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PPM
139792		<.01	<1	0.41	0.20		
139793		<.01	10	3.11	3.46		437
139794		<.01	7	9.54	10.50		1153
139795		<.01	3	2.72	2.01		231
139796		<.01	2	0.73	1.46		118
139797		<.01	1	3.15	1.81		202
139798		<.01	1	0.10	0.34		
139799		<.01	<1	0.29	0.28		
139800		<.01	<1	0.15	0.46		
139819		<.01	14	0.03	0.12		
139820		<.01	14	0.01	0.13		
139821		<.01	14	0.07	0.88		
139822		<.01	9	0.02	0.36		
139823		<.01	<1	<.01	0.01		
139824		<.01	2	<.01	<0.01		
139851		<.01	<1	0.34	0.76		
139852		<.01	8	5.35		15.02	937
139853		<.01	8	5.18		17.70	776
139854		<.01	<1	<.01	0.01		6
139855		<.01	<1	0.44	0.71		
139856		<.01	<1	0.06	0.06		
139857		<.01	5	<.01	0.19		
139858		<.01	<1	0.04	2.34		



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STANDARD NAME	ELEMENT UNITS	AU30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
ANALYTICAL BLANK		<5	<0.7	<0.2	<1	<2	3	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
ANALYTICAL BLANK		<5	<0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		3	0.4	0.1	0.5	1	3	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	0.005	1	1	.005	.01	.01	<0.01	<0.01	<0.0001	<0.01	<0.01	.01	.01	.01	.01	.01	.01	.01	
Garnet Standard	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 6	-	-	0.4	124	17	131	3	119	25	0.2	<5	129	<5	6.36	1258	<10	5	162	44	<20	<20	3	1.66	2.34	3.53	0.01	0.04	70	3	2	20	3	7	<10		
Number of Analyses	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	-	0.4	124	17	131	3	119	25	0.2	3	129	3	6.36	1258	5	5	162	44	10	10	3	1.66	2.34	3.53	0.01	0.04	70	3	2	20	3	7	5		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	-	-	0.2	140	18	140	4	135	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-	24	2	6	1		
CANMET CERTIFIED STD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Garnet Standard	1507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<.01	<1	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-
Number of Analyses		1	1	-	-	-	-
Mean Value		.005	0.5	-	-	-	-
Standard Deviation		-	-	-	-	-	-
Accepted Value		<.01	.01	<.01	<.0001	<.001	.005

Gannet Standard	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-

BCC GEOCHEM STD 6	<.01	8	-	-	-	-	-
Number of Analyses	1	1	-	-	-	-	-
Mean Value	.005	8	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-
Accepted Value	.003	5	-	-	-	5	-

CANMET CERTIFIED STD	-	-	4.30	>15.00	-	-	-
Number of Analyses	-	-	1	1	-	-	-
Mean Value	-	-	4.30	15.00	-	-	-
Standard Deviation	-	-	-	-	-	-	-
Accepted Value	-	-	4.33	19.02	19.02	-	-

Gannet Standard	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-



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STANDARD	ELEMENT	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	
NAME	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	
Fluorspar Granite		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Zn PCT	Zn PCT	Sn PPM
Fluorspar Granite		-	-	-	-	-	<4
Number of Analyses		-	-	-	-	-	1
Mean Value		-	-	-	-	-	2
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	3
Lithium Ore		-	-	-	-	-	1856
Number of Analyses		-	-	-	-	-	1
Mean Value		-	-	-	-	-	1856
Standard Deviation		-	-	-	-	-	-
Accepted Value		-	-	-	-	-	1900



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta
				PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM
139792 Duplicate		16	9.9	14.3	21	2892	1453	5	2	<1	9.4	<5	118	11	0.67	7432	<10	13	<1	3	<20	<20	16	0.01	0.15	>10.00	<.01	<.01	84	11	<2	<1	4	<5	<10
139797 Duplicate		113	120.4 121.4	109.3	229	>10000	>10000	7	5	<1	74.0	<5	797	120	2.68	4380	<10	6	40	2	147	49	15	<.01	0.09	>10.00	<.01	<.01	48	6	6	<1	<1	<5	<10
139799 Duplicate		65 64	117.4	101.2	22	2205	1945	6	6	<1	11.2	<5	241	121	1.14	6101	<10	12	56	3	<20	<20	14	<.01	0.11	>10.00	<.01	<.01	40	8	<2	<1	2	<5	<10
				104.3	23	2342	2045	6	7	<1	11.9	<5	250	127	1.18	6417	<10	13	59	3	<20	<20	15	<.01	0.12	>10.00	<.01	<.01	42	8	<2	<1	2	<5	<10
139819 Duplicate		5	<0.7	0.7	43	233	1014	7	18	<1	0.7	<5	128	20	7.39	34	<10	252	33	36	<20	<20	25	0.53	0.01	0.02	<.01	0.24	11	3	<2	2	<1	<5	<10
139823 Prep Duplicate		<5	<0.7	3.6	<1	2	142	<1	2	<1	0.9	<5	<5	<5	0.10	167	<10	34	<1	2	<20	<20	2	<.01	0.84	>10.00	<.01	<.01	103	3	<2	<1	5	<5	<10
		<5	<0.7	3.8	<1	3	153	<1	2	<1	1.1	<5	<5	<5	0.10	157	<10	32	<1	2	<20	<20	2	<.01	0.79	>10.00	<.01	<.01	95	3		<1	4	<5	<10
139824 Duplicate		<5	<0.7	3.3	2	39	18	<1	15	<1	<0.2	<5	10	<5	4.17	154	<10	69	<1	4	<20	<20	2	<.01	0.82	>10.00	<.01	<.01	191	3	<2	<1	3	<5	<10
139853 Duplicate		839	160.2 149.7	181.2	1179	>10000	>10000	2	7	<1	685.7	<5	8015	900	>10.00	1409	11	<1	71	2	726	543	73	<.01	<.01	1.88	<.01	<.01	8	4	70	<1	<1	<5	<10
139854 Duplicate		<5	<0.7	2.8	10	68	151	2	1	<1	0.5	<5	19	<5	0.42	444	<10	26	<1	3	<20	<20	3	0.08	8.73	>10.00	0.01	0.02	77	3	<2	4	14	<5	<10
139855 Duplicate		28	16.0	16.7	73	3055	4507	2	2	<1	30.0	<5	430	14	1.79	9681	<10	4	<1	2	51	<20	34	<.01	0.10	>10.00	<.01	<.01	74	12	<2	<1	3	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PPM
139792		<.01	<1	0.41	0.20		
Duplicate			0.38	0.20			
139797		<.01	1	3.15	1.81		202
Duplicate							
139799		<.01	<1	0.29	0.28		
Duplicate		<.01	<1				
139819		<.01	14	0.03	0.12		
Duplicate			0.02	0.12			
139823		<.01	<1	<.01	0.01		
Prep Duplicate		<.01	<1	<.01			
139824		<.01	2	<.01	<0.01		
Duplicate			<.01	<0.01			
139853		<.01	8	5.18	17.70	776	
Duplicate							
139854		<.01	<1	<.01	0.01		6
Duplicate							7
139855		<.01	<1	0.44	0.71		
Duplicate			0.42	0.71			



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02377.1 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139793	0.9	10.40	
139794	0.8	9.04	
139795	<.5	1.51	
139796	0.7	2.63	
139797	<.5	2.94	
139852	0.6	14.70	
139853	0.7	16.80	
139854	<.5	0.09	



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02377.2 (COMPLETE)

DATE RECEIVED: 22-SEP-97

PROJECT: SILVERTIP

DATE PRINTED: 21-OCT-97

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SAMPLE NUMBER	ELEMENT UNITS	AuGrav PPM	Ag PPM	Ag PPM
D2 139793		0.66	155.1	133.7
D2 139794		1.32	447.9	>200.0
D2 139795		0.49	94.3	86.8
D2 139796		0.23	77.0	71.9
D2 139797		<0.17	124.8	115.5
D2 139799		<0.17	119.3	114.6
D2 139852		1.00	236.1	>200.0
D2 139853		0.80	217.4	187.8

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02377.2 (COMPLETE)

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STANDARD NAME	ELEMENT UNITS	AuGrav PPM	Ag PPM	Ag PPM
BASE METAL REFERENCE		-	24.9	-
Number of Analyses		-	1	-
Mean Value		-	24.90	-
Standard Deviation		-	-	-
Accepted Value		-	24.3	24.3
BCC GEOCHEM STD 6		-	-	0.5
Number of Analyses		-	-	1
Mean Value		-	-	0.46
Standard Deviation		-	-	-
Accepted Value		-	-	0.2
ANALYTICAL BLANK		-	-	<0.2
Number of Analyses		-	-	1
Mean Value		-	-	0.10
Standard Deviation		-	-	-
Accepted Value		<0.01	<0.1	0.2
Garnet Standard		0.43	-	-
Number of Analyses		1	-	-
Mean Value		0.432	-	-
Standard Deviation		-	-	-
Accepted Value		0.39	-	-

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
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SAMPLE NUMBER	ELEMENT UNITS	AuGrav PPM	Ag PPM	Ag PPM
139793		0.66	155.1	133.7
Duplicate			156.3	
139799		<0.17	119.3	114.6
Duplicate		<0.17		
139853		0.80	217.4	187.8
Duplicate				184.3



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02377.4 (COMPLETE)

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM
D2 139792		2884	1351
D2 139798		883	2822
D2 139799		2327	1982
D2 139800		1233	3451
D2 139819		257	1014
D2 139820		162	1080
D2 139821		662	7291
D2 139822		267	3001
D2 139823		4	148
D2 139824		36	17
D2 139851		2534	5326
D2 139854		69	121
D2 139856		469	448
D2 139857		65	1147
D2 139858		308	>10000

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02377.4 (COMPLETE)

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STANDARD NAME	ELEMENT UNITS	Pb PPM	Zn PPM
STD GEOCHEM STD 6		18	126
Number of Analyses		1	1
Mean Value		17.5	126.5
Standard Deviation		-	-
Accepted Value		20	140
ANALYTICAL BLANK		<2	3
Number of Analyses		1	1
Mean Value		1.0	3.0
Standard Deviation		-	-
Accepted Value		2	1



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CLIENT: IMPERIAL METALS CORP.

PROJECT: SILVERTIP

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM
139820		162	1080
Duplicate		176	1165

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02378.0 (COMPLETE)

DATE RECEIVED: 09-SEP-97 DATE PRINTED: 23-SEP-97 PAGE 1A(1/14)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta	Ti
				PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
139825		<5	<0.7	<0.2	2	11	34	2	7	<1	<0.2	13	6	<5	0.16	298	<10	462	3	12	<20	<20	1	0.04	0.33	>10.00	<0.01	0.01	204	2	<2	1	5	<5	<10	<0.01
139826		63	84.4	68.4	425	>10000	7944	4	14	1	47.0	11	428	81	5.11	1103	<10	28	5	7	265	<20	3	0.02	0.53	>10.00	<0.01	<0.01	122	3	8	<1	4	<5	<10	<0.01
139827		75	3.0	1.7	25	329	1017	3	5	1	5.3	13	29	<5	0.48	978	<10	104	<1	5	<20	<20	2	<0.01	0.27	>10.00	<0.01	<0.01	189	4	<2	<1	5	<5	<10	<0.01
139828		42	10.7	9.2	110	1055	3421	3	16	5	17.3	15	101	17	0.75	1616	<10	92	2	7	54	<20	2	0.04	1.05	>10.00	<0.01	<0.01	147	5	2	<1	5	<5	<10	<0.01
139829		62	101.4	82.1	584	>10000	>10000	14	57	15	66.7	10	893	131	3.71	1985	<10	27	79	18	332	<20	4	0.18	0.79	>10.00	<0.01	0.05	56	5	10	1	3	<5	<10	<0.01
139830		32	8.8	6.7	30	1366	1997	10	29	9	14.0	12	121	12	0.77	2691	<10	38	<1	5	21	<20	5	0.06	0.49	>10.00	<0.01	<0.01	101	10	<2	<1	5	<5	<10	<0.01
139831		14	4.3	3.4	33	348	3597	16	108	30	14.4	<5	51	10	2.41	2042	<10	40	133	36	<20	<20	3	0.38	0.40	4.90	<0.01	0.15	34	6	<2	2	3	<5	<10	<0.01
139832		<5	8.5	7.4	48	1170	3115	14	81	19	9.7	<5	68	14	1.85	2005	<10	48	44	23	<20	<20	3	0.28	0.43	8.60	<0.01	0.10	39	7	<2	1	2	<5	<10	<0.01
139833		6	3.3	2.2	16	329	1021	5	25	6	12.4	12	56	8	0.95	3707	<10	83	1	5	<20	<20	3	0.07	0.71	>10.00	<0.01	<0.01	149	10	<2	<1	5	<5	<10	<0.01
139834		38	7.3	5.2	8	387	714	8	22	3	11.7	13	127	17	3.27	4494	<10	30	<1	3	<20	<20	5	0.05	0.36	>10.00	<0.01	<0.01	99	11	<2	<1	5	<5	<10	<0.01
139835		15	2.3	0.8	3	105	465	2	11	2	12.9	13	35	<5	1.01	5145	<10	33	<1	2	<20	<20	4	0.06	0.28	>10.00	<0.01	<0.01	123	11	<2	<1	5	<5	<10	<0.01
139836		30	28.0	26.6	3	318	621	1	10	3	11.3	13	30	10	0.35	5523	<10	29	<1	3	<20	<20	10	0.05	1.39	>10.00	<0.01	<0.01	100	15	<2	<1	5	<5	<10	<0.01
139837		2005	4.0	2.9	13	264	1292	2	12	2	12.5	14	118	7	1.19	8028	<10	12	1	3	<20	<20	9	0.05	0.63	>10.00	<0.01	<0.01	97	15	<2	<1	5	<5	<10	<0.01
139838		542	71.9	64.1	147	>10000	5503	3	6	2	34.7	14	292	78	1.25	5483	<10	18	<1	2	97	<20	7	0.02	1.25	>10.00	<0.01	<0.01	99	10	3	<1	5	<5	<10	<0.01
139839		285	317.2	>200.0	2965	>10000	>10000	3	7	<1	460.4	41	4575	718	>10.00	2507	25	6	50	<1	1817	108	35	<0.01	0.54	6.03	<0.01	0.02	25	6	49	<1	1	<5	<10	<0.01
139840		281	284.3	>200.0	1238	>10000	>10000	<1	6	<1	698.1	14	1950	718	5.89	1955	29	16	29	2	899	126	7	<0.01	1.70	>10.00	<0.01	<0.01	51	4	39	<1	3	<5	<10	<0.01
139841		438	152.7	131.1	403	>10000	>10000	2	6	1	284.0	9	2900	337	7.67	3195	20	24	27	2	284	47	8	0.02	0.99	>10.00	<0.01	0.02	58	6	23	<1	3	<5	<10	<0.01
139842		136	133.2	117.7	141	8001	8629	1	4	<1	54.2	14	713	134	2.05	5363	<10	14	22	3	106	<20	10	<0.01	0.82	>10.00	<0.01	<0.01	77	7	6	<1	5	<5	<10	<0.01
139843		482	96.9	89.0	91	3832	9492	4	12	<1	60.1	10	1194	63	5.79	3410	<10	19	51	2	64	<20	9	<0.01	0.39	>10.00	<0.01	0.01	61	6	5	<1	3	<5	<10	<0.01
139844		445	74.1	66.8	401	5368	>10000	2	11	<1	307.8	<5	3117	106	>10.00	3057	20	10	69	1	249	65	20	<0.01	0.45	9.60	<0.01	0.02	31	5	24	<1	2	<5	<10	<0.01
139845		410	32.0	63.9	516	4857	>10000	2	10	<1	225.3	6	2946	115	>10.00	3421	17	10	57	1	331	32	20	<0.01	0.29	>10.00	<0.01	0.01	31	5	17	<1	2	<5	<10	<0.01
139846		288	51.0	45.0	197	5378	>10000	3	15	1	107.1	6	1624	54	8.01	5412	<10	14	25	3	126	<20	46	0.02	0.75	>10.00	<0.01	0.02	44	8	6	<1	2	<5	<10	<0.01
139847		346	10.1	9.0	49	1327	6793	1	6	1	49.1	12	491	22	1.88	6842	<10	14	12	3	46	<20	27	0.02	0.64	>10.00	<0.01	<0.01	142	10	2	<1	4	<5	<10	<0.01
139848		<5	2.7	1.7	9	374	1364	<1	8	2	11.9	13	134	9	0.55	8376	<10	16	2	2	<20	<20	13	0.02	0.37	>10.00	<0.01	<0.01	116	10	<2	<1	5	<5	<10	<0.01
139849		38	<0.7	<0.2	6	52	34	<1	2	<1	<0.2	8	5	<5	0.34	475	<10	17	<1	3	<20	<20	2	0.07	9.17	>10.00	0.01	0.03	83	4	<2	4	7	<5	<10	<0.01
139850		<5	6.8	4.9	101	420	8255	36	113	8	44.5	<5	341	260	>10.00	635	<10	581	23	68	<20	<20	3	0.24	0.07	2.51	<0.01	0.05	20	11	<2	2	<1	<5	<10	<0.01
139859		<5	1.6	1.6	1614	77	238	5	188	66	1.9	43	826	5	>10.00	36	<10	2	301	14	39	<20	4	0.70	0.10	0.14	<0.01	0.38	8	3	<2	6	<1	<5	<10	<0.01
139860		<5	<0.7	<0.2	94	28	141	4	58	11	0.7	<5	31	8	2.50	63	<10	44	378	10	<20	<20	6	0.48	0.11	0.19	<0.01	0.17	15	4	<2	3	<1	<5	<10	<0.01
139861		<5	<0.7	<0.2	50	7	29	3	46	10	<0.2	<5	7	<5	2.50	88	<10	61	79	18	<20	<20	16	0.65	0.48	0.55	<0.01	0.40	27	6	<2	3	1	<5	<10	<0.01
139862		<5	<0.7	<0.2	57	10	973	4	51	12	4.1	<5	25	<5	3.47	71	<10	26	66	17	<20	<20	7	0.51	0.47	0.23	<0.01	0.31	20	4	<2	3	1	<5	<10	<0.01



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02378.0 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Zr	Pb	Zn	Sn
		PPM	PCT	PCT	PPM
139825		<1	<.01	<0.01	
139826		<1	2.37	1.31	322
139827		<1	0.05	0.14	25
139828		<1	0.14	0.48	60
139829		1	2.60	1.83	446
139830		<1	0.18	0.29	36
139831		5	0.04	0.41	23
139832		4	0.14	0.37	27
139833		<1	0.05	0.14	16
139834		<1	0.05	0.09	14
139835		<1	0.01	0.05	6
139836		<1	0.04	0.07	9
139837		<1	0.04	0.16	23
139838		<1	1.83	0.75	91
139839		<1	5.53	10.95	1829
139840		<1	7.07	14.42	1273
139841		<1	2.73	5.85	773
139842		<1	0.95	1.22	189
139843		<1	0.44	1.35	136
139844		<1	0.63	6.91	349
139845		<1	0.61	5.33	406
139846		<1	0.66	2.61	184
139847		<1	0.17	0.95	81
139848		<1	0.05	0.19	
139849		<1	<.01	<0.01	
139850		<1	0.06	1.42	
139859		<1	<.01	0.03	
139860		4	<.01	<0.01	
139861		12	<.01	<0.01	
139862		17	<.01	0.10	



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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	ALU30 PPB	Ag Grav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT
139863	<5	<0.7	<0.2	88	13	62	3	32	6	0.3	<5	<5	<5	1.87	110	<10	86	315	9	<20	<20	3	0.25	0.29	0.35	<.01	0.16	17	2	<2	3	<1	<5	<10	<.01	
139864	<5	<0.7	0.7	379	29	275	4	91	35	1.0	184	<5	<5	>10.00	44	<10	7	73	11	<20	<20	11	0.44	0.41	0.54	<.01	0.24	22	5	<2	6	<1	<5	<10	<.01	
139865	<5	<0.7	0.4	128	34	31	3	38	12	<0.2	25	<5	<5	3.89	189	<10	38	285	5	<20	<20	2	0.27	0.48	0.66	<.01	0.17	26	2	<2	3	<1	<5	<10	<.01	
139866	<5	<0.7	<0.2	67	5	21	5	54	10	<0.2	<5	<5	<5	2.71	35	<10	57	48	23	<20	<20	7	0.77	0.63	0.57	<.01	0.32	27	5	<2	14	<1	<5	<10	<.01	
139867	<5	<0.7	<0.2	47	8	14	3	47	11	<0.2	<5	6	<5	4.02	75	<10	32	84	16	<20	<20	7	0.58	0.57	0.21	<.01	0.38	20	4	<2	6	<1	<5	<10	<.01	
139868	<5	<0.7	0.5	210	48	94	2	27	11	0.4	15	36	<5	3.29	164	<10	30	265	3	<20	<20	2	0.13	0.14	0.19	<.01	0.08	7	<1	<2	1	<1	<5	<10	<.01	
139869	<5	<0.7	0.3	99	15	3876	4	52	15	19.6	67	9	<5	5.72	74	<10	18	60	17	<20	<20	7	0.55	0.62	0.23	<.01	0.36	24	4	<2	5	1	<5	<10	<.01	
139870	<5	<0.7	<0.2	91	8	3513	3	44	11	17.3	61	<5	<5	4.05	62	<10	30	115	11	<20	<20	5	0.53	0.54	0.30	<.01	0.32	24	3	<2	6	<1	<5	<10	<.01	
139871	<5	<0.7	<0.2	68	7	361	5	60	12	1.7	<5	49	<5	3.19	47	<10	39	79	32	<20	<20	9	0.98	0.69	0.62	<.01	0.35	39	6	<2	17	1	<5	<10	<.01	
139872	<5	<0.7	<0.2	89	15	396	4	54	14	1.6	<5	39	<5	3.65	314	<10	32	78	23	<20	<20	11	0.94	0.80	0.99	<.01	0.44	48	6	<2	13	<1	<5	<10	<.01	
139873	<5	<0.7	<0.2	126	5	14	4	60	14	<0.2	7	<5	<5	4.66	40	<10	22	55	42	<20	<20	6	1.15	0.93	0.39	<.01	0.41	29	8	<2	26	1	<5	<10	0.02	
139874	<5	<0.7	<0.2	120	5	14	4	49	11	<0.2	6	<5	<5	3.85	53	<10	26	72	25	<20	<20	7	0.87	0.45	0.33	<.01	0.40	32	5	<2	13	<1	<5	<10	<.01	
139875	<5	<0.7	<0.2	60	3	7	4	48	10	<0.2	<5	14	<5	2.47	68	<10	62	54	18	<20	<20	9	0.97	0.44	0.65	<.01	0.29	51	5	<2	8	<1	<5	<10	<.01	
139876	<5	<0.7	<0.2	62	4	10	4	46	10	<0.2	<5	<5	<5	2.83	67	<10	54	104	27	<20	<20	11	0.75	0.53	0.78	0.01	0.36	50	5	<2	10	<1	<5	<10	<.01	
140001	<5	1.2	<0.2	4	20	236	2	3	<1	5.9	14	9	<5	0.17	324	<10	299	1	5	<20	<20	1	0.04	0.20	>10.00	<.01	0.01	152	3	<2	<1	5	<5	<10	<.01	
140002	<5	1.6	0.5	46	476	>10000	1	428	187	301.7	7	298	370	>10.00	10921	17	40	<1	2	<20	77	7	0.11	0.72	>10.00	<.01	0.02	81	27	<2	1	3	<5	<10	<.01	



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SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Sn PPM
139863	3	<.01	<0.01		
139864	14	<.01	0.03		
139865	1	<.01	<0.01		
139866	13	<.01	<0.01		
139867	14	<.01	<0.01		
139868	2	<.01	<0.01		
139869	18	<.01	0.42		
139870	11	<.01	0.36		
139871	15	<.01	0.03		
139872	14	<.01	0.04		
139873	16	<.01	<0.01		
139874	14	<.01	<0.01		
139875	11	<.01	<0.01		
139876	10	<.01	<0.01		
140001	<1	<.01	0.02		
140002	<1	0.07	8.46		



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	3	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	3	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	<.01
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		3	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		3	-	0.1	0.5	1	3	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	.005	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	<.01	
Garnet Standard	1556	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1556	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5	-	-	0.8	90	17	107	<1	38	22	<0.2	<5	11	<5	4.77	791	<10	222	55	134	<20	<20	8	3.29	1.75	1.18	0.06	0.35	43	9	2	26	3	12	<10	0.23		
Number of Analyses	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	-	0.8	90	17	107	0.5	38	22	0.1	3	11	3	4.77	791	5	222	55	134	10	10	8	3.29	1.75	1.18	0.06	0.35	43	9	2	26	3	12	5	0.23		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18	1	-		
Lithium Ore	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



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STANDARD NAME	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<1	-	-	-
ANALYTICAL BLANK		<1	-	-	-
ANALYTICAL BLANK		-	-	-	-
Number of Analyses		2	-	-	-
Mean Value		0.5	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		.01	<.01	<.0001	.005

Gannet Standard	-	-	-	-
Number of Analyses	-	-	-	-
Mean Value	-	-	-	-
Standard Deviation	-	-	-	-
Accepted Value	-	-	-	-

FA SYNTHETIC STD	-	-	-	-
Number of Analyses	-	-	-	-
Mean Value	-	-	-	-
Standard Deviation	-	-	-	-
Accepted Value	-	-	-	-

BCC GEOCHEM STD 5	13	-	-	-
Number of Analyses	1	-	-	-
Mean Value	13	-	-	-
Standard Deviation	-	-	-	-
Accepted Value	9	-	-	-

Lithium Ore	-	-	-	1821
Number of Analyses	-	-	-	1
Mean Value	-	-	-	1821
Standard Deviation	-	-	-	-
Accepted Value	-	-	-	1900



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT		
Garnet Standard		375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD		-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		-	-	1.0	309	32	237	3	41	10	0.9	<5	28	<5	2.78	593	<10	65	77	7	<20	<20	4	0.79	1.19	1.46	0.05	0.15	40	3	<2	6	1	<5	<10	<.01		
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	1.0	309	32	237	3	41	10	0.9	3	28	3	2.78	593	5	65	77	7	10	10	4	0.79	1.19	1.46	0.05	0.15	40	3	1	6	1	3	5	.005		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	1.1	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1	0.01		



Intertek Testing Services

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STANDARD NAME	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Sn PPM
Gannet Standard		-	-	-	-
Number of Analyses		-	-	-	-
Mean Value		-	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	-
CANMET CERTIFIED STD		- 4.30	>15.00	-	-
Number of Analyses		- 1	1	-	-
Mean Value		- 4.30	15.00	-	-
Standard Deviation		- -	-	-	-
Accepted Value		- 4.33	19.02	-	-
FA SYNTHETIC STD		-	-	-	-
FA SYNTHETIC STD		-	-	-	-
Number of Analyses		-	-	-	-
Mean Value		-	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	-
BCC Base Metal Ref.		- 8.41	-	-	-
Number of Analyses		- 1	-	-	-
Mean Value		- 8.41	-	-	-
Standard Deviation		- -	-	-	-
Accepted Value		- 8.28	3.04	-	-
BCC GEOCHEM STD 4	11	-	-	-	-
Number of Analyses	1	-	-	-	-
Mean Value	11	-	-	-	-
Standard Deviation	-	-	-	-	-
Accepted Value	8	-	-	-	5



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Hg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	
Gannet Standard		2423	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		2423	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USDI STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT	Zr UNITS PPM	Pb PCT	Zn PCT	Sn PPM
Garnet Standard		-	-	-	-
Number of Analyses		-	-	-	-
Mean Value		-	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	-
USDI STD		-	-	-	48
Number of Analyses		-	-	-	1
Mean Value		-	-	-	48
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	55



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SAMPLE NUMBER	ELEMENT Au30		Ag Grav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT
	UNITS	PPB																																		
139825 Duplicate	<5	<0.7	<0.2	2	11	34	2	7	<1	<0.2	13	6	<5	0.16	298	<10	462	3	12	<20	<20	1	0.04	0.33	>10.00	<.01	0.01	204	2	<2	1	5	<5	<10	<.01	
139830 Duplicate	32	8.8 8.9	6.7	30	1366	1997	10	29	9	14.0	12	121	12	0.77	2691	<10	38	<1	5	21	<20	5	0.06	0.49	>10.00	<.01	<.01	101	10	<2	<1	5	<5	<10	<.01	
139833 Duplicate	6 <5	3.3	2.2 2.2	16 17	329 349	1021 1081	5 6	25 27	6 6	12.4 13.3	12 12	56 60	8 8	0.95 1.02	3707 3929	<10	83	1 <1	5 6	<20 <20	<20 <20	3 3	0.07 0.08	0.71 0.76	>10.00 >10.00	<.01 <.01	<.01 <.01	149 161	10 11	<2 <2	<1 <1	5 5	<5 <5	<10 <10	<.01 <.01	
139834 Duplicate	38	7.3	5.2	8	387	714	8	22	3	11.7	13	127	17	3.27	4494	<10	30	<1	3	<20	<20	5	0.05	0.36	>10.00	<.01	<.01	99	11	<2	<1	5	<5	<10	<.01	
139835 Prep Duplicate	15 <5	2.3 1.5	0.8 0.8	3 1	105 123	465 474	2 2	11 12	2 2	12.9 13.8	13 14	35 37	<5 <5	1.01 0.95	5145 5546	<10	33 34	<1 <1	2 2	<20 <20	<20 <20	4 4	0.06 0.06	0.28 0.29	>10.00 >10.00	<.01 <.01	<.01 <.01	123 127	11 12	<2 <2	<1 <1	5 5	<5 <5	<10 <10	<.01 <.01	
139839 Duplicate	285	317.2	>200.0	2965	>10000	>10000	3	7	<1	460.4	41	4575	718	>10.00	2507	25	6	50	<1	1817	108	35	<.01	0.54	6.03	<.01	0.02	25	6	49	<1	1	<5	<10	<.01	
139842 Duplicate	136	133.2 133.5	117.7	141	8001	8629	1	4	<1	54.2	14	713	134	2.05	5363	<10	14	22	3	106	<20	10	<.01	0.82	>10.00	<.01	<.01	77	7	6	<1	5	<5	<10	<.01	
139844 Duplicate	445	74.1	66.8	401	5368	>10000	2	11	<1	307.8	<5	3117	106	>10.00	3057	20	10	69	1	249	65	20	<.01	0.45	9.60	<.01	0.02	31	5	24	<1	2	<5	<10	<.01	
139849 Duplicate	38	<0.7	<0.2	6	52	34	<1	2	<1	<0.2	8	5	<5	0.34	475	<10	17	<1	3	<20	<20	2	0.07	9.17	>10.00	0.01	0.03	83	4	<2	4	7	<5	<10	<.01	
139850 Duplicate	<5	6.8	4.9 4.7	101 100	420 412	8255 8017	36 35	113 111	8 8	44.5 43.1	<5 <5	341 337	260 258	>10.00 >10.00	635	<10	581	23	68	<20	<20	3	0.24	0.07	2.51	<.01	0.05	20	11	<2	2	<1	<5	<10	<.01	
139861 Duplicate	<5	<0.7 <0.7	<0.2	50	7	29	3	46	10	<0.2	<5	7	<5	2.50	88	<10	61	79	18	<20	<20	16	0.65	0.48	0.55	<.01	0.40	27	6	<2	3	1	<5	<10	<.01	
139862 Duplicate	<5	<0.7	<0.2	57	10	973	4	51	12	4.1	<5	25	<5	3.47	71	<10	26	66	17	<20	<20	7	0.51	0.47	0.23	<.01	0.31	20	4	<2	3	1	<5	<10	<.01	



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SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Sn PPM
139825		<1	<.01	<0.01	
Duplicate			<.01	<0.01	
139830		<1	0.18	0.29	36
Duplicate					
139833		<1	0.05	0.14	16
Duplicate		<1			
139834		<1	0.05	0.09	14
Duplicate			0.05	0.10	14
139835		<1	0.01	0.05	6
Prep Duplicate		<1	0.01	0.06	5
139839		<1	5.53	10.95	1829
Duplicate			5.57	10.95	
139842		<1	0.95	1.22	189
Duplicate					
139844		<1	0.63	6.91	349
Duplicate			0.63	7.01	
139849		<1	<.01	<0.01	
Duplicate			<.01	<0.01	
139850		<1	0.06	1.42	
Duplicate		<1			
139861		12	<.01	<0.01	
Duplicate					
139862		17	<.01	0.10	
Duplicate			<.01	0.09	



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SAMPLE NUMBER	ELEMENT UNITS	Al ₂ O ₃ PPB	Ag Grav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT
139863 Duplicate		<5	<0.7	<0.2	88	13	62	3	32	6	0.3	<5	<5	<5	1.87	110	<10	86	315	9	<20	<20	3	0.25	0.29	0.35	<.01	0.16	17	2	<2	3	<1	<5	<10	<.01
139866 Duplicate		<5	<0.7	<0.2	67	5	21	5	54	10	<0.2	<5	<5	<5	2.71	35	<10	57	48	23	<20	<20	7	0.77	0.63	0.57	<.01	0.32	27	5	<2	14	<1	<5	<10	<.01
139872 Duplicate		<5	<0.7	<0.2	89	15	396	4	54	14	1.6	<5	39	<5	3.65	314	<10	32	78	23	<20	<20	11	0.94	0.80	0.99	<.01	0.44	48	6	<2	13	<1	<5	<10	<.01
139874 Duplicate		<5	<0.7	<0.2	120	5	14	4	49	11	<0.2	6	<5	<5	3.85	53	<10	26	72	25	<20	<20	7	0.87	0.45	0.33	<.01	0.40	32	5	<2	13	<1	<5	<10	<.01
139876 Prep Duplicate		<5	<0.7	<0.2	62	4	10	4	46	10	<0.2	<5	<5	<5	2.83	67	<10	54	104	27	<20	<20	11	0.75	0.53	0.78	0.01	0.36	50	5	<2	10	<1	<5	<10	<.01
		<5	<0.7	<0.2	63	4	59	4	45	10	<0.2	<5	<5	<5	2.83	75	<10	62	110	26	<20	<20	10	0.71	0.52	0.79	0.01	0.33	51	5	<2	10	<1	<5	<10	<.01
140001 Duplicate		<5	1.2	<0.2	4	20	236	2	3	<1	5.9	14	9	<5	0.17	324	<10	299	1	5	<20	<20	1	0.04	0.20	>10.00	<.01	0.01	152	3	<2	<1	5	<5	<10	<.01
				<0.2	4	21	256	1	3	<1	6.0	14	9	<5	0.18	335	<10	305	1	5	<20	<20	1	0.04	0.20	>10.00	<.01	0.02	157	3	<2	<1	5	<5	<10	<.01
Prep Duplicate Duplicate		<5	<0.7	<0.2	63	4	59	4	45	10	<0.2	<5	<5	<5	2.83	75	<10	62	110	26	<20	<20	10	0.71	0.52	0.79	0.01	0.33	51	5	<2	10	<1	<5	<10	<.01



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SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Pb PCT	Zn PCT	Sn PPM
139863 Duplicate	3	<.01	<0.01		
139866 Duplicate	13	<.01	<0.01		
139872 Duplicate	14	<.01	0.04		
139874 Duplicate	14	<.01	<0.01		
139876 Prep Duplicate	10	<.01	<0.01		
140001 Duplicate	<1	<.01	0.02		
Prep Duplicate Duplicate	10	<.01	<0.01		



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139826	<.5	3.69	
139827	<.5	1.34	
139828	<.5	4.35	
139829	<.5	13.00	
139830	<.5	0.20	
139831	<.5	0.22	
139832	<.5	0.90	
139833	<.5	0.25	
139834	<.5	0.23	
139835	<.5	0.09	
139836	<.5	0.07	
139837	<.5	0.32	
139838	<.5	1.43	
139839	0.7	31.30	
139840	<.5	14.00	
139841	0.6	5.31	
139842	<.5	1.66	
139843	0.9	2.07	
139844	0.6	9.11	
139845	0.5	8.97	
139846	0.5	4.09	
139847	<.5	0.68	



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STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
CANMET STD SY-3		1.1	0.05
Number of Analyses		1	1
Mean Value		1.1	0.05
Standard Deviation		-	-
Accepted Value		-	-

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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139837		<.5	0.32
Duplicate		<.5	0.32



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CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02433.0 (COMPLETE)

DATE RECEIVED: 12-SEP-97 DATE PRINTED: 7-OCT-97 PAGE 1A(1/12)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
139877		8	4.5	4.4	79	214	590	5	18	2	3.4	<5	109	9	0.89	70	<10	80	428	6	46	<20	<1	0.06	0.08	0.22	<.01	0.02	9	<1	<2	<1	<1	<5	<10
139878		15	1.4	0.8	9	35	105	5	24	3	0.7	<5	27	12	8.49	533	<10	26	11	8	<20	<20	<1	0.03	0.27	>10.00	<.01	<.01	186	2	3	<1	2	<5	<10
139879		59	7.8	6.6	26	758	1625	2	3	<1	12.0	<5	116	7	0.48	1106	<10	31	2	5	<20	<20	2	0.02	1.38	>10.00	<.01	<.01	99	3	<2	<1	4	<5	<10
139880		17	2.6	2.1	6	264	9358	3	123	63	60.4	<5	41	8	7.45	3956	<10	18	4	<1	<20	<20	2	0.04	3.53	>10.00	<.01	<.01	84	17	<2	1	2	<5	<10
139881		16	1.3	1.0	<1	136	237	2	6	1	1.2	<5	15	5	0.89	405	<10	24	1	5	<20	<20	<1	0.01	0.26	>10.00	<.01	<.01	79	2	<2	<1	3	<5	<10
139882		81	8.1	8.4	8	1462	1764	8	20	3	11.3	<5	218	42	3.74	839	<10	23	9	8	<20	<20	2	0.03	0.23	>10.00	<.01	<.01	74	2	<2	<1	2	<5	<10
139883		2050	317.7	>200.0	513	8362	>10000	<1	6	3	272.1	6	8609	>2000	>10.00	249	<10	2	69	<1	1133	<20	20	<.01	<.01	0.27	<.01	<.01	1	<1	34	<1	<1	<5	<10
139884		2292	182.5	183.0	610	7186	>10000	<1	11	3	381.0	6	7518	1404	>10.00	356	<10	2	49	<1	823	<20	3	<.01	<.01	0.33	<.01	<.01	<1	<1	36	<1	<1	<5	<10
139885		1475	237.5	>200.0	1270	>10000	>10000	8	19	6	638.6	<5	5778	>2000	>10.00	906	<10	4	113	1	1389	<20	5	0.03	<.01	0.40	<.01	0.02	1	<1	61	<1	<1	<5	<10
139886		1127	117.4	113.9	1148	8606	>10000	<1	9	3	867.4	<5	5993	1942	>10.00	864	<10	2	69	<1	882	<20	3	<.01	<.01	0.39	<.01	<.01	1	<1	78	<1	<1	<5	<10
139887		1150	111.8	107.4	1030	9237	>10000	4	27	6	671.6	<5	5051	552	>10.00	895	<10	4	112	2	850	<20	15	0.02	<.01	1.22	<.01	0.01	4	2	51	<1	<1	<5	<10
139888		1717	158.6	154.6	1038	>10000	>10000	<1	12	7	665.0	<5	5779	1757	>10.00	971	<10	3	99	<1	953	<20	5	<.01	<.01	0.03	<.01	<.01	<1	3	65	<1	<1	<5	<10
139889		1691	140.9	140.6	600	>10000	>10000	<1	15	6	530.9	<5	5000	925	>10.00	890	<10	3	113	<1	916	<20	5	<.01	<.01	1.03	<.01	<.01	3	2	52	<1	<1	<5	<10
139890		71	38.8	41.4	101	5136	5211	12	15	3	29.7	<5	384	43	2.46	1397	<10	24	82	3	72	<20	2	0.01	0.02	7.41	<.01	<.01	42	3	3	<1	1	<5	<10
139891		1694	555.7	>200.0	1167	>10000	>10000	<1	11	3	740.7	<5	5815	928	>10.00	639	<10	2	65	<1	907	<20	25	<.01	<.01	1.47	<.01	<.01	5	1	58	<1	<1	<5	<10
139892		1705	477.7	>200.0	1341	9451	>10000	<1	9	3	743.9	<5	5746	814	>10.00	641	<10	1	56	<1	1029	<20	27	<.01	0.01	1.44	<.01	<.01	5	1	57	<1	<1	<5	<10
139893		11	1.7	1.3	4	150	378	2	2	<1	2.1	<5	13	<5	0.32	408	<10	12	2	3	<20	<20	2	0.08	8.88	>10.00	0.01	0.03	90	3	<2	5	5	<5	<10
139894		<5	5.7	4.8	6	949	237	1	2	<1	1.1	<5	16	9	0.45	626	<10	111	<1	2	<20	<20	1	<.01	1.07	>10.00	<.01	<.01	227	3	<2	<1	4	<5	<10
139895		39	2.0	2.0	2	83	158	4	5	<1	0.7	5	20	6	0.14	1865	<10	66	1	5	<20	<20	2	<.01	0.43	>10.00	<.01	<.01	148	3	<2	<1	4	<5	<10
139896		4827	1394.1	>200.0	3929	>10000	>10000	<1	4	4	<651.4	5	>10000	>2000	>10.00	804	<10	<1	17	<1	>2000	<20	18	<.01	<.01	1.42	<.01	<.01	4	2	70	<1	<1	<5	<10
139897		1074	259.1	>200.0	1095	8258	>10000	25	30	12	493.5	23	7505	399	>10.00	1523	<10	1	50	<1	775	<20	35	<.01	0.01	1.30	<.01	<.01	4	2	60	<1	<1	<5	<10
139898		462	166.3	168.3	144	>10000	>10000	13	12	4	123.1	22	2084	261	8.30	1225	<10	2	111	<1	106	<20	3	<.01	0.06	2.87	<.01	<.01	6	1	12	<1	<1	<5	<10
139899		874	77.9	89.8	288	8878	>10000	13	9	2	125.6	20	>10000	252	>10.00	265	<10	2	93	<1	158	<20	15	<.01	<.01	0.67	<.01	<.01	2	<1	28	<1	<1	<5	<10
139900		490	1151.0	>200.0	2451	>10000	>10000	2	4	2	717.2	167	5115	1486	>10.00	687	<10	<1	57	<1	>2000	<20	4	<.01	<.01	0.39	<.01	<.01	1	<1	87	<1	<1	<5	<10
139901		461	797.0	>200.0	3710	>10000	>10000	<1	9	4	<1022	47	6962	>2000	>10.00	1209	<10	<1	51	<1	>2000	<20	13	<.01	0.06	1.05	<.01	<.01	4	1	134	<1	<1	<5	<10
139902		490	808.5	>200.0	3059	>10000	>10000	<1	7	4	886.2	33	5328	>2000	>10.00	1184	<10	<1	37	<1	>2000	<20	11	<.01	0.07	1.37	<.01	<.01	5	1	111	<1	<1	<5	<10
139903		7	2.4	5.2	8	198	497	2	1	<1	2.7	<5	15	6	0.24	339	<10	12	2	2	<20	<20	2	0.06	7.68	>10.00	0.01	0.02	67	2	<2	4	4	<5	<10
139904		9	2.5	2.4	4	360	727	1	4	2	3.0	<5	50	26	0.27	5881	<10	69	<1	1	<20	<20	2	0.01	0.19	>10.00	<.01	<.01	148	4	<2	<1	4	<5	<10
140003		118	9.7	10.8	22	176	498	13	45	8	2.1	<5	597	15	6.83	458	<10	4	119	12	<20	<20	2	0.22	0.28	2.66	<.01	0.09	30	4	4	<1	<1	<5	<10
140004		102	16.8	19.7	126	2467	1418	14	47	6	8.6	<5	382	40	2.49	219	<10	15	108	19	111	<20	5	0.24	0.03	1.89	<.01	0.09	6	2	3	1	2	<5	<10



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM
139877		<.01	2	0.01			0.06			
139878		<.01	4	<0.01			<0.01			
139879		<.01	<1	0.11			0.27			
139880		<.01	3	0.04			2.35			
139881		<.01	<1	0.02			0.04			
139882		<.01	2	0.27			0.35			
139883		<.01	10	9.42			6.43			1803s
139884		<.01	10	4.45			9.00			1621
139885		<.01	7	6.22			>15.00	16.14		1980
139886		<.01	7	2.63			>15.00	22.10	1554	
139887		<.01	8	1.41			>15.00	15.28		1736
139888		<.01	6	3.92			>15.00	16.08		1339
139889		<.01	8	2.19			12.65			1807
139890		<.01	2	0.86			1.02			115
139891		<.01	6	11.75			>15.00	18.45		927
139892		<.01	6	10.62			>15.00	19.96	1317	
139893		<.01	<1	0.02			0.05			4
139894		<.01	<1	0.14			0.03			
139895		<.01	<1	0.01			0.02			
139896		<.01	4	>15.00		39.53	13.64			2650
139897		<.01	7	6.95			13.69			1239
139898		<.01	3	1.84			3.02			159
139899		<.01	9	2.51			3.28			287
139900		<.01	4	>15.00		26.52	>15.00	18.37		1483
139901		<.01	4	>15.00	17.51		>15.00	26.01	3206	
139902		<.01	3	>15.00	16.50		>15.00	25.87	3010	
139903		<.01	<1	0.03			0.07			10
139904		<.01	<1	0.05			0.11			
140003		<.01	7	0.02			0.05			
140004		<.01	5	0.33			0.18			



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02433.0 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140005		193	8.0	8.1	50	1133	1144	18	60	8	7.6	<5	511	26	3.13	157	<10	20	119	24	35	<20	5	0.26	0.05	1.50	<.01	0.09	7	2	3	1	2	<5	<10
140006		7	1.3	0.5	20	38	54	2	4	<1	0.2	<5	18	<5	1.92	289	<10	48	3	1	<20	<20	<1	<.01	0.50	>10.00	<.01	<.01	321	1	<2	<1	3	<5	<10
140007		20	5.5	5.0	21	519	1366	4	7	1	6.5	<5	149	12	2.36	699	<10	35	<1	<1	<20	<20	2	<.01	1.07	>10.00	<.01	<.01	101	2	<2	<1	2	<5	<10
140008		41	10.7	10.4	53	663	4313	2	5	1	21.8	<5	274	20	2.20	433	<10	16	<1	<1	41	<20	2	<.01	1.04	>10.00	<.01	<.01	82	2	2	<1	2	<5	<10
140009		7	1.7	1.1	2	80	152	3	10	1	0.5	<5	21	6	2.44	623	<10	47	1	1	<20	<20	2	<.01	1.56	>10.00	<.01	<.01	143	3	<2	<1	3	<5	<10
140010		20	3.3	3.3	32	223	1435	34	118	14	4.9	<5	98	25	2.72	354	<10	24	150	40	<20	<20	4	0.42	0.05	0.51	<.01	0.19	9	3	3	2	4	<5	<10
140011		130	26.9	29.1	123	4081	3590	11	44	6	18.1	6	574	206	7.58	939	<10	12	152	8	70	<20	1	0.12	0.04	2.43	<.01	0.05	12	2	6	<1	<1	<5	<10
140012		<5	<0.7	0.6	2	79	246	3	4	<1	0.8	<5	13	8	0.19	5384	<10	16	5	5	<20	<20	2	0.01	0.17	>10.00	<.01	<.01	151	7	<2	<1	3	<5	<10
140013		<5	<0.7	<0.2	<1	27	61	4	2	<1	<0.2	<5	6	<5	0.21	1129	<10	24	1	3	<20	<20	1	<.01	0.16	>10.00	<.01	<.01	173	5	<2	<1	4	<5	<10
140014		<5	<0.7	<0.2	<1	38	39	2	2	<1	<0.2	<5	5	<5	0.17	806	<10	20	<1	4	<20	<20	1	<.01	0.13	>10.00	<.01	<.01	178	7	<2	<1	4	<5	<10
140015		77	1238.6	>200.0	2616	>10000	>10000	<1	5	3	274.7	302	4475	>2000	>10.00	360	<10	<1	76	<1	1652	<20	4	<.01	<.01	1.16	<.01	<.01	4	<1	36	<1	<1	<5	<10
140016		92	563.1	>200.0	1803	>10000	>10000	<1	7	3	316.9	446	3671	1246	>10.00	277	<10	<1	190	<1	1120	<20	<1	<.01	<.01	0.09	<.01	<.01	<1	<1	39	<1	<1	<5	<10
140017		13	179.9	177.4	1364	>10000	1642	1	2	<1	13.3	95	242	105	0.83	2349	<10	18	7	2	967	<20	2	<.01	0.14	>10.00	<.01	<.01	129	6	<2	<1	3	<5	<10
140018		490	40.7	37.1	88	4429	>10000	<1	7	2	90.9	16	7146	73	>10.00	568	<10	2	82	<1	<20	<20	3	<.01	0.01	2.15	<.01	<.01	6	2	18	<1	<1	<5	<10
140019		325	347.3	>200.0	529	>10000	>10000	<1	10	3	253.0	228	2941	284	>10.00	3859	<10	6	80	<1	182	<20	13	<.01	0.55	5.84	<.01	<.01	28	5	24	<1	<1	<5	<10
140020		44	8.2	9.3	25	1201	4561	<1	7	3	21.4	5	881	18	5.35	8132	<10	9	19	4	<20	<20	9	<.01	2.10	>10.00	<.01	<.01	76	7	<2	<1	2	<5	<10
140021		361	487.0	>200.0	780	>10000	>10000	<1	7	2	320.0	146	3375	577	>10.00	695	<10	2	80	<1	400	<20	17	<.01	0.01	1.28	<.01	<.01	5	2	41	<1	<1	<5	<10
140022		94	296.1	>200.0	610	>10000	>10000	<1	10	3	168.1	364	1699	1060	>10.00	1629	<10	6	59	<1	151	<20	17	<.01	0.02	4.63	<.01	<.01	24	4	19	<1	<1	<5	<10
140023		15	8.6	10.6	52	1060	4172	4	17	5	15.9	6	562	89	5.60	885	<10	12	147	<1	<20	<20	4	<.01	0.02	5.75	<.01	<.01	45	4	4	<1	<1	<5	<10
140024		815	41.1	38.3	1069	1388	>10000	<1	7	3	644.7	36	5742	105	>10.00	1018	<10	3	92	<1	389	<20	2	<.01	<.01	1.61	<.01	<.01	10	2	63	<1	<1	<5	<10
140025		79	35.8	37.9	95	5675	5536	3	9	2	26.6	12	563	67	4.03	2616	<10	10	115	2	28	<20	5	<.01	0.05	>10.00	<.01	<.01	72	5	3	<1	1	<5	<10
140026		288	97.9	102.0	195	9381	>10000	<1	7	2	157.3	66	1212	95	5.35	2812	<10	6	88	<1	66	<20	2	<.01	0.04	9.34	<.01	<.01	43	3	14	<1	<1	<5	<10
140027		27	9.4	10.1	15	377	451	3	8	1	1.9	<5	60	122	0.94	6376	<10	10	194	<1	<20	<20	3	<.01	0.06	8.95	<.01	<.01	45	4	<2	<1	1	<5	<10
140028		<5	1.4	1.3	3	63	882	3	5	1	4.0	<5	57	78	0.48	8076	<10	13	34	2	<20	<20	2	0.01	0.11	>10.00	<.01	<.01	125	6	<2	<1	3	<5	<10
140029		249	12.9	13.3	71	672	>10000	2	15	6	58.4	7	1347	73	7.29	2765	<10	7	96	<1	21	<20	11	0.02	0.04	9.60	<.01	<.01	41	7	7	<1	<1	<5	<10
140030		9	<0.7	0.5	15	63	>10000	<1	10	3	86.2	<5	63	59	1.18	1135	<10	15	2	1	<20	<20	3	0.02	0.22	>10.00	<.01	<.01	95	7	<2	<1	3	<5	<10
140031		<5	<0.7	0.3	144	56	>10000	<1	59	19	291.3	<5	80	92	4.12	3577	<10	188	2	<1	<20	<20	6	0.06	0.33	>10.00	<.01	<.01	88	11	<2	<1	2	<5	<10
140032		964	849.3	>200.0	2593	>10000	>10000	<1	5	2	249.2	592	3185	1348	>10.00	248	<10	<1	146	<1	1860	<20	<1	<.01	<.01	0.21	<.01	<.01	<1	<1	29	<1	<1	<5	<10
140033		<5	1.3	1.4	5	143	175	2	1	<1	0.5	<5	7	<5	0.27	380	<10	10	2	2	<20	<20	2	0.08	8.13	>10.00	0.01	0.02	72	3	<2	4	4	<5	<10



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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM
140005		<.01	7	0.12			0.12			
140006		<.01	<1	<0.01			<0.01			
140007		<.01	<1	0.10			0.24			
140008		<.01	<1	0.20			1.15			
140009		<.01	<1	<0.01			0.02			
140010		<.01	14	0.02			0.13			
140011		<.01	7	0.51			0.44			
140012		<.01	<1	<0.01			0.02			
140013		<.01	<1	<0.01			<0.01			
140014		<.01	<1	<0.01			<0.01			
140015		<.01	6	>15.00	24.49		6.91			1528
140016		<.01	5	10.57			8.00			1046
140017		<.01	<1	2.61			0.21			1222
140018		<.01	8	0.66			2.03			73
140019		<.01	4	4.73			6.45			290
140020		<.01	2	0.17			0.71			21
140021		<.01	6	8.99			9.61			577
140022		<.01	3	3.98			5.61			253
140023		<.01	2	0.12			0.48			16
140024		<.01	6	0.21			>15.00	17.72		575
140025		<.01	2	0.64			0.76			
140026		<.01	2	1.29			4.45			
140027		<.01	<1	0.04			0.04			
140028		<.01	<1	<0.01			0.11			
140029		<.01	3	0.09			1.97			
140030		<.01	<1	0.01			2.92			
140031		<.01	2	<0.01			9.27			
140032		<.01	4	>15.00	15.54		6.39			1728
140033		<.01	<1	0.02			0.01			



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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
ANALYTICAL BLANK		<5	<0.7	<0.2	<1	<2	2	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	24	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		3	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		3	0.4	0.1	0.5	1	13	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	
Standard Deviation		-	-	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	
FA SYNTHETIC STD		-	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 4		-	-	1.3	327	39	294	3	42	11	1.1	<5	34	<5	2.91	603	<10	64	76	7	<20	<20	5	0.88	1.26	1.47	0.05	0.16	41	3	<2	7	1	<5	<10	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	1.3	327	39	294	3	42	11	1.1	3	34	3	2.91	603	5	64	76	7	10	10	5	0.88	1.26	1.47	0.05	0.16	41	3	1	7	1	3	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	1.1	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1	
Garnet Standard		349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

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Geochemical Lab Report

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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-	-	-
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
Number of Analyses		2	2	-	-	-	-	-	-	-
Mean Value		.005	0.5	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		<.01	.01	<.0001	<.001	<.001	<.0001	<.001	<.001	.005
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		<.01	11	-	-	-	-	-	-	-
Number of Analyses		1	1	-	-	-	-	-	-	-
Mean Value		.005	11	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		0.01	8	-	-	-	-	-	-	5
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
CANMET CERTIFIED STD		-	-	4.31	-	-	>15.00	-	-	-
CANMET CERTIFIED STD		-	-	4.32	-	-	>15.00	-	-	-
Number of Analyses		-	-	2	-	-	2	-	-	-
Mean Value		-	-	4.31	-	-	15.00	-	-	-
Standard Deviation		-	-	0.005	-	-	-	-	-	-



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STANDARD	ELEMENT	AU30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta		
NAME	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT	PCT		
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	
FA SYNTHETIC STD		-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Garnet Standard	2480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	2480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 6		-	-	0.4	132	12	142	2	115	30	0.4	<5	137	<5	6.66	1325	<10	5	177	40	<20	<20	2	1.81	2.45	3.48	0.01	0.04	73	3	3	20	6	7	<10		
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.4	132	12	142	2	115	30	0.4	3	137	3	6.66	1325	5	5	177	40	10	10	2	1.81	2.45	3.48	0.01	0.04	73	3	3	20	6	7	5		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	0.2	140	18	140	4	135	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-	24	2	6	1		
USD1 STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
Accepted Value		-	-	4.33	4.32	4.33	19.02	19.02	19.02	-

FA SYNTHETIC STD	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-

Lithium Ore	-	-	-	-	-	-	-	-	-	1893
Number of Analyses	-	-	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	-	-	1893
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	1900

Gannet Standard	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-

BCC GEOCHEM STD 6	<.01	7	-	-	-	-	-	-	-	-
Number of Analyses	1	1	-	-	-	-	-	-	-	-
Mean Value	.005	7	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	.003	5	-	-	-	-	-	-	-	5

USDI STD	-	-	-	-	-	-	-	-	-	56
Number of Analyses	-	-	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	-	-	56
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	55



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SAMPLE NUMBER	ELEMENT UNITS	Al30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
139877 Duplicate		8	4.5	4.4	79	214	590	5	18	2	3.4	<5	109	9	0.89	70	<10	80	428	6	46	<20	<1	0.06	0.08	0.22	<.01	0.02	9	<1	<2	<1	<1	<5	<10	
139880 Duplicate		17	2.6	2.1	6	264	9358	3	123	63	60.4	<5	41	8	7.45	3956	<10	18	4	<1	<20	<20	2	0.04	3.53	>10.00	<.01	<.01	84	17	<2	1	2	<5	<10	
		15		2.1	5	285	9539	3	132	67	66.3	<5	59	9	7.43	4150	<10	25	3	<1	<20	<20	3	0.05	3.60	>10.00	<.01	<.01	95	19	<2	1	2	<5	<10	
139882 Duplicate		81	8.1	8.4	8	1462	1764	8	20	3	11.3	<5	218	42	3.74	839	<10	23	9	8	<20	<20	2	0.03	0.23	>10.00	<.01	<.01	74	2	<2	<1	2	<5	<10	
			8.8																																	
139886 Duplicate		1127	117.4	113.9	1148	8606	>10000	<1	9	3	867.4	<5	5993	1942	>10.00	864	<10	2	69	<1	882	<20	3	<.01	<.01	0.39	<.01	<.01	1	<1	78	<1	<1	<5	<10	
139891 Duplicate		1694	555.7	>200.0	1167	>10000	>10000	<1	11	3	740.7	<5	5815	928	>10.00	639	<10	2	65	<1	907	<20	25	<.01	<.01	1.47	<.01	<.01	5	1	58	<1	<1	<5	<10	
139894 Duplicate		<5	5.7	4.8	6	949	237	1	2	<1	1.1	<5	16	9	0.45	626	<10	111	<1	2	<20	<20	1	<.01	1.07	>10.00	<.01	<.01	227	3	<2	<1	4	<5	<10	
			5.2																																	
139896 Duplicate		4827	1394.1	>200.0	3929	>10000	>10000	<1	4	4	<651.4	5	>10000	>2000	>10.00	804	<10	<1	17	<1	>2000	<20	18	<.01	<.01	1.42	<.01	<.01	4	2	70	<1	<1	<5	<10	
139897 Duplicate		1074	259.1	>200.0	1095	8258	>10000	25	30	12	493.5	23	7505	399	>10.00	1523	<10	1	50	<1	775	<20	35	<.01	0.01	1.30	<.01	<.01	4	2	60	<1	<1	<5	<10	
				>200.0	1124	9268	>10000	25	32	13	534.2	25	8229	425	>10.00	1627	<10	1	57	<1	836	<20	39	<.01	0.02	1.64	<.01	<.01	4	2	62	<1	<1	<5	<10	
139901 Duplicate		461	797.0	>200.0	3710	>10000	>10000	<1	9	4	<1022	47	6962	>2000	>10.00	1209	<10	<1	51	<1	>2000	<20	13	<.01	0.06	1.05	<.01	<.01	4	1	134	<1	<1	<5	<10	
139902 Duplicate		490	808.5	>200.0	3059	>10000	>10000	<1	7	4	886.2	33	5328	>2000	>10.00	1184	<10	<1	37	<1	>2000	<20	11	<.01	0.07	1.37	<.01	<.01	5	1	111	<1	<1	<5	<10	
		495																																		
140003 Duplicate		118	9.7	10.8	22	176	498	13	45	8	2.1	<5	597	15	6.83	458	<10	4	119	12	<20	<20	2	0.22	0.28	2.66	<.01	0.09	30	4	4	<1	<1	<5	<10	
			9.1																																	
140004 Duplicate		102	16.8	19.7	126	2467	1418	14	47	6	8.6	<5	382	40	2.49	219	<10	15	108	19	111	<20	5	0.24	0.03	1.89	<.01	0.09	6	2	3	1	2	<5	<10	



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SAMPLE NUMBER	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
139877		<.01	2	0.01			0.06			
Duplicate				0.02			0.06			
139880		<.01	3	0.04			2.35			
Duplicate		<.01	3							
139882		<.01	2	0.27			0.35			
Duplicate										
139886		<.01	7	2.63			>15.00	22.10	1554	
Duplicate				2.71			>15.00		1638	
139891		<.01	6	11.75			>15.00	18.45	927	
Duplicate				12.03			>15.00			
139894		<.01	<1	0.14			0.03			
Duplicate										
139896		<.01	4	>15.00		39.53	13.64		2650	
Duplicate				>15.00			13.76			
139897		<.01	7	6.95			13.69		1239	
Duplicate		<.01	7							
139901		<.01	4	>15.00	17.51		>15.00	26.01	3206	
Duplicate				>15.00			>15.00			
139902		<.01	3	>15.00	16.50		>15.00	25.87	3010	
Duplicate										
140003		<.01	7	0.02			0.05			
Duplicate										
140004		<.01	5	0.33			0.18			
Duplicate				0.33			0.19			



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SAMPLE NUMBER	ELEMENT UNITS	Al3O3 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140005 Prep Duplicate		193 <5	8.0	8.1	50	1133	1144	18	60	8	7.6	<5	511	26	3.13	157	<10	20	119	24	35	<20	5	0.26	0.05	1.50	<.01	0.09	7	2	3	1	2	<5	<10
140008 Duplicate		41	10.7	10.4	53	663	4313	2	5	1	21.8	<5	274	20	2.20	433	<10	16	<1	<1	41	<20	2	<.01	1.04	>10.00	<.01	<.01	82	2	2	<1	2	<5	<10
140014 Duplicate		<5	<0.7	<0.2	<1	38	39	2	2	<1	<0.2	<5	5	<5	0.17	806	<10	20	<1	4	<20	<20	1	<.01	0.13	>10.00	<.01	<.01	178	7	<2	<1	4	<5	<10
			<0.7	0.3	<1	36	57	2	1	<1	<0.2	<5	<5	<5	0.13	691	<10	17	<1	3	<20	<20	<1	<.01	0.12	>10.00	<.01	<.01	142	6	<2	<1	3	<5	<10
140016 Duplicate		92	563.1	>200.0	1803	>10000	>10000	<1	7	3	316.9	446	3671	1246	>10.00	277	<10	<1	190	<1	1120	<20	<1	<.01	<.01	0.09	<.01	<.01	<1	<1	39	<1	<1	<5	<10
140021 Duplicate		361 269	487.0	>200.0	780	>10000	>10000	<1	7	2	320.0	146	3375	577	>10.00	695	<10	2	80	<1	400	<20	17	<.01	0.01	1.28	<.01	<.01	5	2	41	<1	<1	<5	<10
140023 Prep Duplicate		15 38	8.6	10.6	52	1060	4172	4	17	5	15.9	6	562	89	5.60	885	<10	12	147	<1	<20	<20	4	<.01	0.02	5.75	<.01	<.01	45	4	4	<1	<1	<5	<10
			7.4	8.1	49	942	4229	4	15	4	16.4	<5	522	82	5.18	912	<10	14	153	<1	<20	<20	5	0.01	0.02	5.37	<.01	<.01	42	4	4	<1	<1	<5	<10
140025 Duplicate		79	35.8	37.9	95	5675	5536	3	9	2	26.6	12	563	67	4.03	2616	<10	10	115	2	28	<20	5	<.01	0.05	>10.00	<.01	<.01	72	5	3	<1	1	<5	<10
			35.0																																
140026 Duplicate		288	97.9	102.0	195	9381	>10000	<1	7	2	157.3	66	1212	95	5.35	2812	<10	6	88	<1	66	<20	2	<.01	0.04	9.34	<.01	<.01	43	3	14	<1	<1	<5	<10
140031 Duplicate		<5	<0.7	0.3	144	56	>10000	<1	59	19	291.3	<5	80	92	4.12	3577	<10	188	2	<1	<20	<20	6	0.06	0.33	>10.00	<.01	<.01	88	11	<2	<1	2	<5	<10
				0.3	120	63	>10000	<1	52	17	259.5	<5	73	82	3.46	3112	<10	158	2	<1	<20	<20	5	0.05	0.29	>10.00	<.01	<.01	73	9	<2	<1	2	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
140005		<.01	7	0.12			0.12			
Prep Duplicate										
140008		<.01	<1	0.20			1.15			
Duplicate										
				0.20			1.17			
140014		<.01	<1	<0.01			<0.01			
Duplicate										
		<.01	<1							
140016		<.01	5	10.57			8.00			1046
Duplicate										
				10.45			7.81			1155
140021		<.01	6	8.99			9.61			577
Duplicate										
				9.18			9.52			
140023		<.01	2	0.12			0.48			16
Prep Duplicate										
		<.01	2	0.11			0.51			16
140025		<.01	2	0.64			0.76			
Duplicate										
140026		<.01	2	1.29			4.45			
Duplicate										
				1.29			4.31			
140031		<.01	2	<0.01			9.27			
Duplicate										
		<.01	2	<0.01			9.34			



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139883		1.2	9.25
139884		1.0	9.77
139885		0.9	16.70
139886		0.7	10.40
139887		1.2	8.68
139888		0.8	16.40
139889		0.9	7.59
139890		1.5	3.15
139891		0.9	33.40
139892		0.9	34.80
139893		<.5	0.32
140015		0.7	42.60
140016		0.9	47.30
140017		<.5	2.61
140018		1.1	4.32
140019		1.0	32.60
140020		<.5	1.44
140021		1.1	42.30
140022		0.9	49.20
140023		0.7	0.82
140024		1.0	69.10
140032		0.6	39.00
139896		1.9	19.30
139897		1.0	24.80
139898		0.9	8.45
139899		1.2	11.00
139900		1.0	57.90
139901		1.4	60.70
139902		1.0	61.50
139903		<.5	0.52



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STANDARD NAME	ELEMENT UNITS	Ge PPM	In PPM
CANMET Std CZN-1	0.7	85.00	
Number of Analyses	1	1	
Mean Value	0.7	85.00	
Standard Deviation	-	-	
Accepted Value	-	-	



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CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02508.0 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
139905		<5	<0.7	0.4	2	56	36	2	3	<1	0.5	<5	8	<5	0.11	745	<10	546	2	9	<20	<20	<1	0.01	0.33	>10.00	<.01	<.01	194	3	<2	1	17	<5
139906		301	894.3	>200.0	3023	>10000	>10000	3	2	<1	416.6	<5	5589	>2000	>10.00	633	34	3	31	3	>2000	<161	8	0.06	0.01	3.18	<.01	<.01	15	1	36	2	3	<5
139907		<5	1.8	1.7	9	299	271	4	8	<1	1.3	<5	49	37	1.34	1171	<10	189	1	7	<20	<20	<1	0.02	0.21	>10.00	<.01	<.01	288	3	<2	2	19	<5
139908		12	1.6	0.7	13	115	56	<1	37	2	0.4	<5	88	21	>10.00	385	<10	22	57	10	<20	<20	<1	0.15	1.06	2.03	<.01	<.01	46	<1	4	2	3	<5
139909		64	<0.7	0.4	1	27	33	1	6	<1	<0.2	<5	16	<5	1.23	489	<10	137	<1	5	<20	<20	<1	0.01	0.26	>10.00	<.01	<.01	213	2	<2	1	16	<5
139910		231	1645.8	>200.0	4643	>10000	>10000	2	3	<1	485.8	<5	3916	>2000	>10.00	585	69	3	70	3	>2000	<254	1	0.07	<0.01	1.21	<.01	<.01	4	<1	56	3	3	<5
139911		24	16.8	18.7	77	4731	2459	2	2	<1	12.4	<5	465	48	1.68	2313	<10	76	1	5	52	<20	<1	0.02	0.20	>10.00	<.01	<.01	152	4	<2	1	17	<5
139912		451	307.5	>200.0	2074	>10000	>10000	7	<1	<1	625.4	8	>10000	>2000	>10.00	2091	57	4	57	5	1704	<437	76	0.11	0.02	4.11	<.01	<.01	17	5	92	3	5	<5
139913		7	1.7	1.4	9	150	452	1	<1	<1	2.3	<5	188	22	0.60	1662	<10	64	1	3	<20	<20	<1	<0.01	0.14	>10.00	<.01	<.01	150	3	<2	<1	14	<5
139914		209	462.5	>200.0	2465	>10000	>10000	4	9	2	391.7	<5	7436	1077	>10.00	613	44	5	113	3	1965	<198	<1	0.13	<0.01	2.04	<.01	<.01	7	<1	49	2	4	<5
139915		58	22.9	20.8	147	5217	6702	3	7	<1	44.5	<5	1690	85	7.05	1367	<10	79	9	4	78	29	<1	0.04	0.28	>10.00	<.01	<.01	143	4	2	2	15	<5
139916		262	310.0	>200.0	2206	>10000	>10000	7	12	<1	876.3	20	5861	587	>10.00	1150	66	2	70	2	1451	<483	4	0.11	<0.01	2.44	<.01	<.01	7	1	92	3	3	<5
139917		2170	99.2	80.6	903	>10000	>10000	3	11	1	668.4	<5	7024	278	>10.00	723	36	5	67	3	629	<250	37	0.10	<0.01	1.05	<.01	<.01	3	1	44	3	1	<5
139918		2233	85.2	82.1	815	>10000	>10000	3	10	1	638.3	<5	6826	282	>10.00	694	47	6	57	3	604	<254	30	0.09	<0.01	0.94	<.01	<.01	2	1	41	1	2	<5
139919		4020	97.9	93.3	742	>10000	>10000	4	9	1	510.0	<5	>10000	1315	>10.00	868	43	6	115	2	794	<200	3	0.11	<0.01	1.94	<.01	<.01	5	1	41	2	3	<5
139920		4884	65.5	58.3	515	9657	>10000	3	3	1	481.5	<5	>10000	578	>10.00	565	40	3	55	2	449	<179	13	0.11	<0.01	0.51	<.01	<.01	<1	<1	30	<1	2	<5
139921		2960	20.7	18.1	172	4067	>10000	4	5	1	169.6	<5	>10000	132	>10.00	648	23	5	89	2	130	<111	12	0.12	<0.01	1.87	<.01	<.01	4	3	14	2	2	<5
139922		1406	116.2	109.4	502	>10000	>10000	9	18	3	358.3	30	9463	446	>10.00	1219	41	10	143	5	348	<170	4	0.16	0.02	3.92	<.01	<.01	16	2	24	<1	4	<5
139923		806	45.1	42.3	283	9127	>10000	6	22	3	164.3	<5	4352	214	>10.00	1035	25	10	208	3	240	<59	3	0.08	<0.01	3.72	<.01	<.01	14	2	13	<1	3	<5
139924		1781	146.7	139.6	416	>10000	>10000	4	7	1	322.0	<5	6533	357	>10.00	689	32	5	103	1	404	<98	4	0.09	<0.01	1.52	<.01	<.01	3	1	26	<1	2	<5
139925		1970	198.8	186.5	350	>10000	>10000	5	14	1	313.3	<5	6952	1422	>10.00	1323	31	5	95	2	413	<125	4	0.08	<0.01	3.09	<.01	<.01	7	2	19	<1	3	<5
139926		1625	287.6	>200.0	528	>10000	>10000	7	11	2	378.9	<5	9457	1032	>10.00	1629	38	5	69	3	572	<140	3	0.15	0.02	2.31	<.01	<.01	6	2	29	<1	3	<5
139927		1404	189.3	176.5	640	>10000	>10000	5	12	2	466.6	<5	9104	826	>10.00	2115	46	3	47	3	623	<165	5	0.15	0.03	3.04	<.01	<.01	9	2	33	<1	4	<5
139928		248	1187.7	>200.0	4500	>10000	>10000	7	3	<1	378.5	<5	5617	>2000	>10.00	1556	71	5	61	3	>2000	<393	26	0.09	0.01	3.03	<.01	<.01	8	2	88	<1	3	<5
139929		15	43.0	42.0	166	9094	4715	<1	1	<1	28.8	<5	199	230	0.77	449	<10	16	5	2	118	<20	<1	0.07	9.16	>10.00	0.01	0.02	79	3	<2	4	10	<5
139930		1563	93.0	82.7	302	>10000	>10000	1	4	1	214.9	<5	>10000	139	>10.00	1530	24	4	26	3	224	<105	9	0.12	0.02	1.95	<.01	<.01	5	1	21	<1	2	<5
139931		51	9.1	8.6	25	2343	1241	<1	2	<1	6.5	<5	255	45	0.74	12032	<10	22	2	2	<20	<20	<1	0.02	0.41	>10.00	<.01	<.01	110	4	<2	<1	16	<5
139932		10	7.6	7.0	10	1721	739	<1	1	<1	4.4	<5	79	11	0.20	918	<10	19	5	1	<20	<20	<1	0.01	0.58	>10.00	<.01	<.01	139	2	<2	<1	14	<5
139933		277	1224.8	>200.0	3337	>10000	>10000	1	1	<1	1132.4	<5	1760	1497	6.92	1454	52	3	25	<1	>2000	<356	11	0.04	<0.01	2.69	<.01	<.01	7	2	84	1	2	<5
139934		9	49.0	48.4	191	>10000	3733	1	2	<1	21.5	<5	77	48	0.40	2968	<10	18	9	2	154	<20	<1	0.01	0.49	>10.00	<.01	<.01	149	4	<2	<1	14	<5



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SAMPLE NUMBER	ELEMENT	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		UNITS	PPM	PCT	PPM	PCT	PCT	PCT	PCT	PPM
139905		<10	<.01	<1	<.01			<0.01		7
139906		<10	<.01	<1		22.86		10.47		2193
139907		<10	<.01	<1	0.03			<0.01		12
139908		<10	<.01	<1	0.01			<0.01		31
139909		<10	<.01	<1	<.01			<0.01		<4
139910		<10	<.01	<1		29.73		12.61		2157
139911		<10	<.01	<1	0.40			0.29		73
139912		<10	<.01	<1	9.50			12.93		1172
139913		<10	<.01	<1	0.02			0.05		6
139914		<10	<.01	<1	9.17			8.54		1721
139915		<10	<.01	<1	0.50			1.04		92
139916		<10	<.01	<1	6.81			19.80		1106
139917		<10	<.01	<1	1.46			14.76		864
139918		<10	<.01	<1	1.49			15.83		844
139919		<10	<.01	<1	2.01			8.91		916
139920		<10	<.01	<1	1.14			10.23		634
139921		<10	<.01	<1	0.39			2.86		131
139922		<10	<.01	<1	2.57			5.07		302
139923		<10	<.01	<1	0.87			2.29		269
139924		<10	<.01	<1	3.20			6.92		842
139925		<10	<.01	<1	4.43			5.72		1655
139926		<10	<.01	<1	5.48			6.40		1921
139927		<10	<.01	<1	5.21			7.61		1135
139928		<10	<.01	<1		25.49		17.66		2389
139929		<10	<.01	<1	0.90			0.78		148
139930		<10	<.01	<1	2.43			4.72		316
139931		<10	<.01	<1	0.23			0.15		64
139932		<10	<.01	<1	0.17			0.10		
139933		<10	<.01	<1		29.08		23.84		2422
139934		<10	<.01	<1	1.00			0.52		170



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SAMPLE NUMBER	ELEMENT UNITS	Al3O3 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
139935		<5	12.3	12.8	34	3038	1526	<1	1	<1	9.5	<5	17	19	0.23	377	<10	15	3	3	22	<20	<1	0.07	8.75	>10.00	0.01	0.03	79	3	<2	5	10	<5
139936		<5	1.1	0.8	3	135	1462	<1	11	5	8.1	<5	11	<5	0.32	1157	<10	20	<1	2	<20	<20	<1	0.02	0.77	>10.00	<.01	<.01	126	3	<2	<1	15	<5
139937		73	66.5	65.1	182	>10000	7519	3	40	14	54.0	<5	272	71	2.28	1770	11	63	5	4	134	20	<1	0.03	2.79	>10.00	<.01	<.01	175	4	<2	1	12	<5
139938		67	320.1	>200.0	977	>10000	>10000	4	8	2	247.2	<5	1331	809	5.94	1481	35	58	4	2	800	<89	<1	0.03	0.43	>10.00	<.01	<.01	136	3	21	<1	16	<5
139939		139	112.0	110.8	369	>10000	9271	4	4	<1	87.5	<5	674	202	2.78	994	12	76	3	3	268	29	<1	0.02	0.68	>10.00	<.01	<.01	153	3	5	<1	17	<5
139940		11	2.3	1.7	11	274	583	4	6	1	2.9	<5	32	<5	0.32	2238	<10	44	<1	3	<20	<20	<1	0.01	0.79	>10.00	<.01	<.01	121	3	<2	<1	16	<5
139941		15	1.6	1.9	7	241	1041	4	31	6	4.6	<5	42	15	6.60	1878	<10	54	19	6	<20	<20	<1	0.04	6.71	>10.00	<.01	<.01	137	5	<2	2	11	<5
139942		111	5.8	4.2	47	126	5309	49	181	25	12.9	<5	179	43	3.91	1286	<10	45	73	34	<20	<20	<1	0.33	0.10	1.67	<.01	0.15	20	9	<2	2	1	<5
139943		60	6.3	5.8	45	421	4952	27	127	20	15.4	<5	133	52	3.08	1266	<10	61	70	26	<20	<20	5	0.29	0.04	0.19	<.01	0.13	7	6	<2	1	<1	<5
139944		482	83.7	86.5	742	>10000	>10000	9	49	9	168.3	<5	2814	819	>10.00	1977	25	16	312	6	582	<53	1	0.11	0.03	3.81	<.01	0.03	16	4	11	<1	3	<5
139945		33	823.3	>200.0	3547	>10000	>10000	2	52	17	331.7	9	449	1132	5.56	2503	71	13	47	3	>2000	<124	<1	0.05	0.09	>10.00	<.01	<.01	82	9	22	<1	9	<5
139946		899	334.6	>200.0	1463	>10000	>10000	3	49	16	407.6	71	5619	869	>10.00	2896	58	5	117	2	885	<143	2	0.11	0.03	3.68	<.01	<.01	15	9	34	<1	4	<5
139947		10	6.3	5.8	25	1264	972	<1	2	<1	4.7	<5	33	12	0.36	431	<10	18	4	4	<20	<20	<1	0.10	>10.00	>10.00	0.02	0.04	95	4	<2	5	12	<5
139948		<5	2.0	1.5	7	310	782	<1	7	1	3.1	<5	27	13	0.44	8003	<10	12	58	3	<20	<20	<1	0.01	0.10	>10.00	<.01	<.01	98	4	<2	<1	12	<5
139949		14	4.1	3.3	8	323	3945	6	55	10	15.7	<5	75	77	2.80	4180	<10	46	141	5	<20	<20	<1	0.06	0.11	>10.00	<.01	0.01	62	11	<2	<1	7	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
139935	<10	<.01	<1	0.30				0.23		44
139936	<10	<.01	<1	0.01				0.20		
139937	<10	<.01	<1	1.36				1.46		
139938	<10	<.01	<1	6.98				5.24		784
139939	<10	<.01	<1	2.80				1.75		
139940	<10	<.01	<1	0.03				0.07		
139941	<10	<.01	<1	0.02				0.13		
139942	<10	<.01	11	<.01				0.60		
139943	<10	<.01	8	0.04				0.52		
139944	<10	<.01	1	1.84				2.39		613
139945	<10	<.01	<1		16.28			6.95		1598
139946	<10	<.01	<1	6.50				7.67		832
139947	<10	<.01	<1	0.12				0.11		16
139948	<10	<.01	<1	0.03				0.10		
139949	<10	<.01	2	0.03				0.50		



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STANDARD NAME	ELEMENT UNITS	AU30 PP8	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	25	<1	<1	<1	<0.2	<5	6	<5	<0.01	2	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	
ANALYTICAL BLANK		<5	-	<0.2	2	<2	6	<1	<1	<1	<0.2	<5	<5	<5	<0.01	1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	
ANALYTICAL BLANK		7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		3	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		4	-	0.1	1	1	16	0.5	0.5	0.5	0.1	3	4	3	0.005	1	5	0.5	0.5	0.5	10	10	0.5	.005	0.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	
Standard Deviation		3	-	-	1.0	-	13	-	-	-	-	-	2	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.005	.01	<0.01	<.0001	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	
FA SYNTHETIC STD		-	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5		-	-	0.9	82	18	124	<1	34	20	0.4	<5	31	<5	4.89	702	<10	202	52	114	<20	<20	4	3.05	1.69	0.99	0.06	0.30	35	8	<2	24	3	10	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.9	82	18	124	0.5	34	20	0.4	3	31	3	4.89	702	5	202	52	114	10	10	4	3.05	1.69	0.99	0.06	0.30	35	8	1	24	3	10	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18	
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gannet Standard		356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-	-
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
Number of Analyses		2	2	2	-	-	-	-	-	-
Mean Value		5	.005	0.5	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		.01	<.01	.01	<.01	<.001	<.001	<.0001	<.001	.005

FA SYNTHETIC STD	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-

BCC GEOCHEM STD 5	<10	0.21	12	-	-	-	-	-	-	-
Number of Analyses	1	1	1	-	-	-	-	-	-	-
Mean Value	5	0.21	12	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	1	-	9	-	-	-	-	-	-	-

Lithium Ore	-	-	-	-	-	-	-	-	-	1826
Number of Analyses	-	-	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	-	-	1826
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	1900

Garnet Standard	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-
USDI STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		-	-	0.9	250	31	225	3	37	9	0.9	<5	30	<5	2.75	533	<10	57	71	7	<20	<20	1	0.73	1.11	1.34	0.05	0.13	37	3	<2	5	1	<5	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.9	250	31	225	3	37	9	0.9	3	30	3	2.75	533	5	57	71	7	10	10	1	0.73	1.11	1.34	0.05	0.13	37	3	1	5	1	3	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	1.1	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	
Gannet Standard	2334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	2334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
CANMET CERTIFIED STD		-	-	-	4.30	-	-	>15.00	-	-
Number of Analyses		-	-	-	1	-	-	1	-	-
Mean Value		-	-	-	4.30	-	-	15.00	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	4.33	4.32	4.33	19.02	19.02	-
USDI STD		-	-	-	-	-	-	-	-	61
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	61
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	55
BCC Base Metal Ref.		-	-	-	8.10	-	-	-	-	-
Number of Analyses		-	-	-	1	-	-	-	-	-
Mean Value		-	-	-	8.10	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	8.28	8.28	8.28	3.04	3.04	-
BCC GEOCHEM STD 4		<10	<.01	9	-	-	-	-	-	-
Number of Analyses		1	1	1	-	-	-	-	-	-
Mean Value		5	.005	9	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		1	0.01	8	-	-	-	-	-	5
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-



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SAMPLE NUMBER	ELEMENT Au30		Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Mb	K	Sr	Y	Ga	Li	Nb	Sc	
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	
139905 Duplicate	<5	<0.7	0.4	2	56	36	2	3	<1	0.5	<5	8	<5	0.11	745	<10	546	2	9	<20	<20	<1	0.01	0.33	>10.00	<.01	<.01	19%	3	<2	1	17	<5	
139910 Duplicate	231	1645.8	>200.0	4643	>10000	>10000	2	3	<1	485.8	<5	3916	>2000	>10.00	585	69	3	70	3	>2000	<254	1	0.07	<0.01	1.21	<.01	<.01	4	<1	56	3	3	<5	
139913 Duplicate	7	1.7	1.4	9	150	452	1	<1	<1	2.3	<5	188	22	0.60	1662	<10	64	1	3	<20	<20	<1	<.01	0.14	>10.00	<.01	<.01	150	3	<2	<1	14	<5	
	8		1.3	9	141	520	1	1	<1	2.9	<5	195	8	0.65	1805	<10	69	2	3	<20	<20	<1	<.01	0.15	>10.00	<.01	<.01	166	3	<2	<1	15	<5	
139914 Duplicate	209	462.5	>200.0	2465	>10000	>10000	4	9	2	391.7	<5	7436	1077	>10.00	613	44	5	113	3	1965	<198	<1	0.13	<0.01	2.04	<.01	<.01	7	<1	49	2	4	<5	
139917 Prep Duplicate	2170	99.2	80.6	903	>10000	>10000	3	11	1	668.4	<5	7024	278	>10.00	723	36	5	67	3	629	<250	37	0.10	<0.01	1.05	<.01	<.01	3	1	44	3	1	<5	
	2731	117.5			>10000																													
139919 Duplicate	4020	97.9	93.3	742	>10000	>10000	4	9	1	510.0	<5	>10000	1315	>10.00	868	43	6	115	2	79%	<200	3	0.11	<0.01	1.94	<.01	<.01	5	1	41	2	3	<5	
139922 Duplicate	1406	116.2	109.4	502	>10000	>10000	9	18	3	358.3	30	9463	446	>10.00	1219	41	10	143	5	348	<170	4	0.16	0.02	3.92	<.01	<.01	16	2	24	<1	4	<5	
139924 Duplicate	1781	146.7	139.6	416	>10000	>10000	4	7	1	322.0	<5	6533	357	>10.00	689	32	5	103	1	404	<98	4	0.09	<0.01	1.52	<.01	<.01	3	1	26	<1	2	<5	
139929 Duplicate	15	43.0	42.0	166	90%	4715	<1	1	<1	28.8	<5	199	230	0.77	449	<10	16	5	2	118	<20	<1	0.07	9.16	>10.00	0.01	0.02	79	3	<2	4	10	<5	
139930 Duplicate	1563	93.0	82.7	302	>10000	>10000	1	4	1	214.9	<5	>10000	139	>10.00	1530	24	4	26	3	224	<105	9	0.12	0.02	1.95	<.01	<.01	5	1	21	<1	2	<5	
			89.2	357	>10000	>10000	3	5	2	245.7	<5	>10000	157	>10.00	1720	28	4	32	3	261	<130	12	0.14	0.03	2.47	<.01	<.01	6	2	27	<1	2	<5	
139933 Duplicate	277	1224.8	>200.0	3337	>10000	>10000	1	1	<1	1132.4	<5	1760	1497	6.92	1454	52	3	25	<1	>2000	<356	11	0.04	<0.01	2.69	<.01	<.01	7	2	84	1	2	<5	
		1238.4																																
139934 Duplicate	9	49.0	48.4	191	>10000	3733	1	2	<1	21.5	<5	77	48	0.40	2968	<10	18	9	2	154	<20	<1	0.01	0.49	>10.00	<.01	<.01	149	4	<2	<1	14	<5	



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
139905		<10	<.01	<1	<.01			<0.01		7
Duplicate					<.01			<0.01		
139910		<10	<.01	<1		29.73		12.61		2157
Duplicate										
139913		<10	<.01	<1	0.02			0.05		6
Duplicate		<10	<.01	<1						11
139914		<10	<.01	<1	9.17			8.54		1721
Duplicate					9.07			8.45		
139917		<10	<.01	<1	1.46			14.76		864
Prep Duplicate										2259
139919		<10	<.01	<1	2.01			8.91		916
Duplicate					2.08			8.71		
139922		<10	<.01	<1	2.57			5.07		302
Duplicate										
139924		<10	<.01	<1	3.20			6.92		842
Duplicate					3.26			6.84		
139929		<10	<.01	<1	0.90			0.78		148
Duplicate					0.88			0.76		
139930		<10	<.01	<1	2.43			4.72		316
Duplicate		<10	<.01	<1						324
139933		<10	<.01	<1		29.08		23.84		2422
Duplicate										
139934		<10	<.01	<1	1.00			0.52		170
Duplicate					0.98			0.51		



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
139935 Duplicate		<5 6	12.3	12.8	34	3038	1526	<1	1	<1	9.5	<5	17	19	0.23	377	<10	15	3	3	22	<20	<1	0.07	8.75	>10.00	0.01	0.03	79	3	<2	5	10	<5
139938 Duplicate		67	320.1	>200.0	977	>10000	>10000	4	8	2	247.2	<5	1331	809	5.9%	1481	35	58	4	2	800	<89	<1	0.03	0.43	>10.00	<.01	<.01	136	3	21	<1	16	<5
139944 Duplicate		482	83.7 85.4	86.5	742	>10000	>10000	9	49	9	168.3	<5	2814	819	>10.00	1977	25	16	312	6	582	<53	1	0.11	0.03	3.81	<.01	0.03	16	4	11	<1	3	<5
139946 Duplicate		899	334.6	>200.0	1463	>10000	>10000	3	49	16	407.6	71	5619	869	>10.00	2896	58	5	117	2	885	<143	2	0.11	0.03	3.68	<.01	<.01	15	9	34	<1	4	<5
139948 Prep Duplicate		<5 7	2.0 2.5	1.5 1.8	7 8	310 374	782 798	<1	7	1	3.1	<5	27	13	0.44	8003	<10	12	58	3	<20	<20	<1	0.01	0.10	>10.00	<.01	<.01	98	4	<2	<1	12	<5
139949 Duplicate		14	4.1	3.3 3.5	8 8	323 313	3945 4137	6	55	10	15.7	<5	75	77	2.80	4180	<10	46	141	5	<20	<20	<1	0.06	0.11	>10.00	<.01	0.01	62	11	<2	<1	7	<5
											16.4	<5	77	82	2.9%	4401	<10	47	149	5	<20	<20	<1	0.06	0.12	>10.00	<.01	0.01	65	12	<2	<1	7	<5



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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
139935 Duplicate	<10	<.01	<1	0.30				0.23		44
139938 Duplicate	<10	<.01	<1	6.98				5.24		784
				7.05				5.21		
139944 Duplicate	<10	<.01	1	1.84				2.39		613
139946 Duplicate	<10	<.01	<1	6.50				7.67		832
				6.56				7.64		
139948 Prep Duplicate	<10	<.01	<1	0.03				0.10		
	<10	<.01	<1	0.04				0.10		
139949 Duplicate	<10	<.01	2	0.03				0.50		
	<10	<.01	2							



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139905		0.7	<0.01
139905 DUPLICATE		0.8	0.19
139906		<.5	17.60
139907		0.5	0.11
139908		0.5	<0.01
139909		<.5	<0.01
139910		1.7	89.20
139911		0.7	3.21
139912		2.3	32.50
139913		<.5	0.40
139914		1.4	25.20
139915		<.5	3.22
139915 DUPLICATE		<.5	3.70
139916		1.4	101.00
139917		2.6	9.76
139918		2.1	8.87
139919		2.1	3.83
139920		4.1	4.51
139921		2.3	3.54
139922		2.0	15.60
139923		0.7	2.85
CZN-1 STANDARD		0.5	74.50
139924		1.8	4.23
139925		1.5	4.94
139926		2.3	9.82
139927		2.2	14.20
139928		0.9	20.00
139929		<.5	4.16
139930		1.7	2.35
139931		<.5	0.14



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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139933	2.0	32.10	
139934	1.0	12.60	
139935	0.5	22.10	
139938	1.2	7.10	
139944	<.5	63.70	
139945	1.1	2.86	
139946	<.5	0.92	
139947	4.4	0.17	
GXR-3 STANDARD	<.5	0.30	



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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM
139905		54	58
139907		201	108
139908		194	105
139909		20	27
139911		3111	2118
139913		104	344
139915		4131	7763
139921		3052	>10000
139936		122	1578
139940		243	557
139941		190	863
139942		131	6122
139943		413	5565
139947		837	792
139948		228	724
139949		266	4324



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STANDARD NAME	ELEMENT UNITS	Pb PPM	Zn PPM
BCC GEOCHEM STD 5		10	78
Number of Analyses		1	1
Mean Value		10	78
Standard Deviation		-	-
Accepted Value		11	80
ANALYTICAL BLANK		<2	4
Number of Analyses		1	1
Mean Value		1	4
Standard Deviation		-	-
Accepted Value		2	1



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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM
139936		122	1578
Duplicate		136	1465



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SAMPLE NUMBER	ELEMENT Au30		AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM
139950		89	12.0	10.6	38	1636	620	15	72	8	3.9	<5	435	73	3.03	2210	<10	31	94	37	41	<20	4	0.36	0.25	2.23	<.01	0.15	16	5	<2	3	2	<5
139951		323	79.9	72.3	425	>10000	>10000	16	60	5	108.9	<5	2283	915	8.84	520	<10	12	217	19	591	45	6	0.27	0.05	0.76	<.01	0.12	6	3	9	2	1	<5
139952		593	189.3	159.6	267	>10000	>10000	19	75	6	219.6	<5	3339	1946	>10.00	590	11	10	110	31	>2000	93	7	0.26	0.02	0.84	<.01	0.13	7	3	18	2	2	<5
139953		777	435.9	>200.0	819	>10000	>10000	1	14	<1	522.7	<5	7570	>2000	>10.00	424	17	6	80	10	>2000	235	12	0.06	<.01	0.18	<.01	0.05	2	1	29	<1	2	<5
139954		2569	438.2	>200.0	941	>10000	>10000	<1	9	<1	729.6	<5	8627	>2000	>10.00	544	17	6	79	6	>2000	356	5	0.02	<.01	0.20	<.01	0.03	1	<1	46	<1	2	<5
139955		2317	430.9	>200.0	868	>10000	>10000	<1	9	<1	710.8	<5	7935	>2000	>10.00	529	19	5	77	7	>2000	342	6	0.02	<.01	0.15	<.01	0.03	1	<1	44	<1	2	<5
139956		2590	568.2	>200.0	787	>10000	>10000	<1	10	<1	574.3	<5	8508	>2000	>10.00	392	16	1	58	3	>2000	276	10	<.01	<.01	0.05	<.01	0.02	1	<1	30	<1	2	<5
139957		54	8.4	6.1	19	1262	1536	<1	2	<1	11.0	5	186	108	0.79	342	<10	24	5	3	53	<20	2	0.09	8.40	>10.00	0.02	0.04	76	3	<2	5	12	<5
139958		2395	432.3	>200.0	1158	>10000	>10000	<1	11	<1	598.8	<5	8723	>2000	>10.00	423	18	3	58	4	>2000	271	4	0.01	<.01	0.39	<.01	0.03	2	<1	33	<1	2	<5
139959		534	922.1	>200.0	4843	>10000	>10000	11	9	<1	872.4	6	7275	>2000	>10.00	708	26	<1	39	3	>2000	522	47	<.01	<.01	0.49	<.01	0.02	2	2	95	<1	2	<5
139960		2256	438.8	>200.0	2106	>10000	>10000	5	13	<1	929.9	<5	7315	>2000	>10.00	727	19	3	59	2	1970	472	15	<.01	<.01	0.69	<.01	0.02	3	<1	67	<1	2	<5
139961		2399	267.6	192.4	1662	>10000	>10000	6	26	<1	762.1	<5	7653	>2000	>10.00	675	20	4	50	2	1366	388	15	<.01	<.01	1.03	<.01	0.02	4	1	54	<1	2	<5
139962		1397	693.0	>200.0	3755	>10000	>10000	<1	3	<1	1071.3	<5	6770	>2000	>10.00	875	27	1	38	2	>2000	612	12	<.01	<.01	0.31	<.01	0.02	1	<1	118	<1	2	<5
139963		670	437.7	>200.0	3017	>10000	>10000	<1	8	<1	795.9	<5	9166	>2000	>10.00	592	23	3	45	5	>2000	505	18	<.01	<.01	0.09	<.01	0.02	1	<1	91	<1	2	<5
139964		248	1168.1	>200.0	4963	>10000	>10000	<1	<1	<1	786.9	5	8667	>2000	>10.00	603	26	<1	29	2	>2000	465	9	<.01	<.01	0.39	<.01	0.01	1	<1	88	<1	2	<5
139965		7	5.8	4.3	26	1009	978	<1	2	<1	5.9	5	48	77	0.39	347	<10	26	3	4	<20	<20	3	0.10	8.67	>10.00	0.02	0.05	83	3	<2	5	11	<5
139966		491	647.1	>200.0	4090	>10000	>10000	<1	5	<1	896.8	<5	>10000	>2000	>10.00	738	24	6	9	3	>2000	501	58	0.02	0.12	1.05	<.01	0.02	5	3	103	<1	2	<5
139967		26	10.7	9.8	88	1778	4077	3	5	<1	24.8	9	182	62	1.27	1632	<10	39	<1	3	60	<20	6	<.01	2.08	>10.00	<.01	<.01	123	5	2	1	8	<5
139968		14	37.1	30.0	135	5403	7047	<1	7	<1	47.6	6	146	79	0.98	1406	<10	29	2	4	87	<20	4	0.01	7.87	>10.00	<.01	<.01	102	3	4	2	12	<5
139969		64	231.6	183.7	1300	>10000	>10000	<1	7	<1	188.9	7	742	758	3.09	1328	11	27	11	5	958	75	7	0.03	4.19	>10.00	<.01	0.01	82	4	17	2	8	<5
139970		18	39.6	34.8	256	7109	6428	<1	3	<1	40.4	9	188	83	0.74	1310	<10	27	4	3	172	<20	3	0.02	1.42	>10.00	<.01	<.01	120	4	4	1	8	<5
139971		142	10.2	9.2	91	1591	2568	<1	3	<1	14.6	10	112	46	0.30	549	<10	52	<1	2	62	<20	2	0.02	0.81	>10.00	<.01	<.01	184	3	<2	<1	9	<5
139972		<5	0.8	<0.2	3	61	121	<1	2	<1	0.2	10	7	<5	0.08	259	<10	53	<1	1	<20	<20	1	0.02	0.68	>10.00	<.01	<.01	225	2	<2	<1	8	<5
140034		14	2.9	5.2	60	102	669	48	153	12	4.1	<5	144	34	2.45	825	<10	46	63	61	<20	<20	2	0.51	0.25	7.65	<.01	0.22	110	9	<2	3	3	<5
140035		1815	217.1	184.8	764	>10000	>10000	8	33	<1	602.0	<5	6719	1923	>10.00	534	16	3	124	16	1926	252	19	0.04	0.02	0.29	<.01	0.04	3	2	38	<1	2	<5
140036		2526	155.2	109.3	853	7353	>10000	<1	8	<1	692.3	<5	7616	899	>10.00	513	21	3	87	2	1022	315	6	<.01	<.01	0.03	<.01	0.03	<1	<1	47	<1	1	<5
140037		2096	853.4	>200.0	757	>10000	>10000	2	12	<1	587.2	<5	7644	>2000	>10.00	429	16	3	73	4	>2000	223	7	0.01	<.01	0.14	<.01	0.03	1	<1	27	<1	2	<5
140038		4531	169.0	121.1	588	>10000	>10000	<1	14	<1	677.4	<5	8958	462	>10.00	501	18	3	79	2	370	272	10	<.01	<.01	0.49	<.01	0.03	4	<1	44	<1	1	<5
140039		3360	221.9	160.3	618	>10000	>10000	<1	17	<1	707.5	<5	8656	564	>10.00	487	14	3	93	2	409	298	11	<.01	<.01	0.43	<.01	0.03	3	<1	45	<1	1	<5
140040		1453	1615.9	>200.0	1063	>10000	>10000	<1	6	<1	469.5	<5	5300	>2000	>10.00	792	16	<1	43	1	>2000	177	22	<.01	<.01	1.28	<.01	0.01	4	3	26	<1	1	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
139950	<10	<.01	9	0.18				0.07		
139951	<10	<.01	8	1.33				1.95	724	
139952	<10	<.01	8	3.58				3.83	2372	
139953	<10	<.01	1	9.75				10.73	4250	
139954	<10	<.01	<1	9.06				>15.00	16.03	4489
139955	<10	<.01	<1	8.87				>15.00	15.64	4224
139956	<10	<.01	<1	12.62				12.32	4485	
139957	<10	<.01	<1	0.19				0.22	87	
139958	<10	<.01	<1	10.82				12.45	2916	
139959	<10	<.01	<1	>15.00	22.62			>15.00	19.87	3412
139960	<10	<.01	<1	9.99				>15.00	19.35	3490
139961	<10	<.01	<1	6.04				>15.00	16.66	2618
139962	<10	<.01	<1	>15.00	16.30			>15.00	23.86	2981
139963	<10	<.01	<1	10.84				>15.00	20.75	1798
139964	<10	<.01	<1	>15.00		31.35		>15.00	18.70	2290
139965	<10	<.01	<1	0.15				0.15	22	
139966	<10	<.01	<1	>15.00	16.76			>15.00	21.88	2011
139967	<10	<.01	<1	0.26				0.59	84	
139968	<10	<.01	<1	0.77				1.21	111	
139969	<10	<.01	<1	5.07				4.90	1340	
139970	<10	<.01	<1	0.96				0.96		
139971	<10	<.01	<1	0.22				0.35		
139972	<10	<.01	<1	0.01				0.01		
140034	<10	<.01	13	0.02				0.09		
140035	<10	<.01	1	3.03				13.55	3071	
140036	<10	<.01	<1	1.75				>15.00	17.02	1567
140037	<10	<.01	<1	>15.00	18.72			11.64	3167	
140038	<10	<.01	<1	3.30				>15.00	15.28	565
140039	<10	<.01	<1	4.82				>15.00	15.42	624
140040	<10	<.01	<1	>15.00		41.76	8.84		1445	



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SAMPLE NUMBER	ELEMENT Au30 AgGrav			Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
	UNITS	PPB	PPM																															
140041		15	2.8	2.1	8	482	666	1	5	<1	4.0	11	51	17	0.67	1041	<10	137	<1	5	<20	<20	2	0.01	0.37	>10.00	<.01	<.01	175	3	<2	<1	8	<5
140042		2142	1341.0	>200.0	5053	>10000	>10000	4	27	<1	167.6	<5	4494	>2000	>10.00	191	<10	4	53	11	>2000	51	1	0.02	<.01	1.26	<.01	0.04	5	2	9	<1	3	<5
140043		118	103.2	89.3	541	>10000	7528	8	6	<1	55.6	10	400	257	1.41	1407	<10	121	7	5	408	21	5	<.01	0.17	>10.00	<.01	<.01	137	5	4	<1	7	<5
140044		1870	537.1	>200.0	2267	>10000	>10000	<1	8	<1	735.8	<5	8214	>2000	>10.00	660	21	3	77	<1	1633	317	29	<.01	<.01	1.04	<.01	0.02	4	2	38	<1	1	<5
140045		817	50.2	40.1	213	9772	>10000	9	9	1	132.6	7	2357	196	5.26	3726	<10	22	12	3	157	46	8	<.01	0.13	>10.00	<.01	<.01	65	7	10	<1	6	<5
140046		1686	338.0	>200.0	1829	>10000	>10000	<1	8	<1	728.6	<5	6468	1624	>10.00	656	17	2	87	<1	1549	295	82	<.01	<.01	1.30	<.01	0.02	5	3	41	<1	1	<5
140047		12	2.7	1.7	10	437	719	<1	2	<1	4.6	<5	40	18	0.38	367	<10	18	1	3	<20	<20	3	0.11	8.63	>10.00	0.01	0.04	75	3	<2	5	10	<5
140048		12	4.4	3.0	18	771	1207	2	5	1	7.7	10	57	19	0.35	998	<10	66	<1	2	<20	<20	3	<.01	0.55	>10.00	<.01	<.01	119	4	<2	<1	8	<5
140049		<5	2.4	0.9	9	271	147	5	5	<1	0.5	10	13	8	0.59	728	<10	84	<1	2	<20	<20	2	<.01	1.07	>10.00	<.01	<.01	131	3	<2	<1	10	<5
140050		6	<0.7	<0.2	2	57	97	3	5	<1	0.4	8	18	6	0.82	1113	<10	60	<1	3	<20	<20	2	<.01	4.17	>10.00	<.01	<.01	113	4	<2	1	9	<5
140051		15	9.2	6.8	9	1338	806	3	5	<1	5.8	9	62	49	0.95	665	<10	67	1	2	28	<20	2	<.01	3.28	>10.00	<.01	<.01	111	4	<2	1	9	<5
140052		<5	<0.7	<0.2	4	82	601	1	4	2	5.3	10	14	<5	0.44	2204	<10	18	<1	1	<20	<20	3	<.01	0.74	>10.00	<.01	<.01	114	7	<2	<1	9	<5
140053		6	3.5	1.0	15	338	915	2	9	3	4.7	7	43	36	1.17	2047	<10	44	<1	3	<20	<20	3	<.01	4.27	>10.00	<.01	<.01	113	5	<2	1	10	<5
140054		8	3.4	1.9	26	323	1821	2	8	<1	10.3	6	37	13	1.60	1456	<10	49	<1	3	<20	<20	3	<.01	4.83	>10.00	<.01	<.01	106	4	<2	1	9	<5
140055		1225	217.0	147.7	821	>10000	>10000	<1	4	<1	341.3	<5	4430	788	>10.00	1358	13	6	24	1	633	135	28	<.01	0.94	7.99	<.01	0.01	28	4	19	<1	3	<5
140056		728	939.3	>200.0	3493	>10000	>10000	<1	2	<1	922.5	<5	5888	>2000	>10.00	821	22	<1	54	<1	>2000	380	20	<.01	0.02	1.01	<.01	0.02	3	1	85	<1	2	<5
140057		539	331.2	>200.0	1513	>10000	>10000	<1	4	<1	528.3	<5	3125	1753	>10.00	1578	28	4	34	1	1145	237	7	<.01	0.52	7.98	<.01	0.01	22	3	35	<1	3	<5
140058		23	5.8	4.8	73	650	5025	3	15	1	28.7	6	88	27	0.82	1782	<10	147	22	11	51	<20	3	0.12	2.08	>10.00	<.01	0.06	84	5	3	1	6	<5
140059		1686	328.2	>200.0	1319	>10000	>10000	<1	9	<1	511.5	<5	6307	>2000	>10.00	1136	18	7	57	3	1800	205	11	0.01	0.26	4.92	<.01	0.02	16	2	42	<1	3	<5
140060		380	134.9	109.3	609	>10000	>10000	3	17	2	176.7	<5	1757	748	5.87	1016	11	54	57	11	418	46	7	0.09	2.56	>10.00	<.01	0.05	62	3	15	1	6	<5
140061		58	10.5	8.8	45	1695	2193	3	10	<1	13.5	<5	288	59	1.46	1407	<10	70	43	6	33	<20	1	0.04	3.08	>10.00	<.01	0.02	44	2	<2	2	6	<5
140062		<5	<0.7	<0.2	4	51	140	<1	2	<1	0.4	10	10	<5	0.09	490	<10	22	<1	<1	<20	<20	1	0.02	0.64	>10.00	<.01	<.01	210	2	<2	<1	8	<5
140063		3248	4.1	3.6	34	92	292	26	95	8	1.6	<5	58	28	1.97	353	<10	56	213	41	<20	<20	6	0.40	0.28	0.97	<.01	0.16	10	2	<2	2	1	<5
140064		172	11.7	9.8	56	2200	4544	19	51	3	30.2	7	513	122	2.47	4647	<10	55	81	31	37	<20	9	0.15	0.25	>10.00	<.01	0.06	176	5	3	1	7	<5
140065		2353	289.6	>200.0	957	>10000	>10000	11	14	<1	881.5	<5	6934	>2000	>10.00	1588	19	17	44	7	951	296	20	0.05	0.19	2.20	<.01	0.04	9	1	62	<1	2	<5
140066		1629	379.7	>200.0	1410	>10000	>10000	5	6	<1	895.7	<5	7219	>2000	>10.00	636	21	4	68	<1	1425	298	2	<.01	0.02	0.23	<.01	0.03	1	<1	46	<1	<1	<5
140067		2576	402.7	>200.0	1318	>10000	>10000	2	15	<1	743.2	<5	6747	1784	>10.00	834	15	4	67	<1	1070	237	16	<.01	0.02	0.93	<.01	0.02	3	1	57	<1	<1	<5
140068		297	1000.0	>200.0	5245	>10000	>10000	<1	3	<1	920.0	5	5162	>2000	>10.00	981	19	12	36	2	>2000	432	12	0.01	0.04	0.99	<.01	0.01	3	1	114	<1	2	<5
140069		134	5.0	4.3	35	242	381	22	71	6	2.2	<5	70	32	1.72	3901	<10	41	76	39	<20	<20	3	0.37	0.81	8.09	<.01	0.14	47	4	<2	2	4	<5
140070		25	41.1	38.2	217	6291	4249	19	29	2	24.4	6	525	334	4.68	10634	<10	23	40	41	134	<20	4	0.13	4.10	>10.00	<.01	0.04	56	2	<2	2	8	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140041	<10	<.01	<1	0.08			0.09		19	
140042	<10	<.01	<1	>15.00		31.28	3.72		3041	
140043	<10	<.01	<1	2.24			1.20		570	
140044	<10	<.01	<1	12.47			>15.00	16.21	1615	
140045	<10	<.01	<1	1.36			2.60		275	
140046	<10	<.01	<1	9.17			14.23		1850	
140047	<10	<.01	<1	0.07			0.10			
140048	<10	<.01	<1	0.11			0.16			
140049	<10	<.01	<1	0.04			0.02			
140050	<10	<.01	<1	0.01			<0.01			
140051	<10	<.01	<1	0.20			0.11			
140052	<10	<.01	<1	0.02			0.08			
140053	<10	<.01	<1	0.05			0.12			
140054	<10	<.01	<1	0.05			0.25			
140055	<10	<.01	<1	4.65			8.19		1003	
140056	<10	<.01	<1	>15.00	19.33		>15.00	19.39	3030	
140057	<10	<.01	<1	7.88			12.62		1182	
140058	<10	<.01	<1	0.09			0.70		53	
140059	<10	<.01	<1	7.40			9.97		2337	
140060	<10	<.01	<1	3.25			4.00		620	
140061	<10	<.01	<1	0.22			0.27		46	
140062	<10	<.01	<1	0.01			0.01			
140063	<10	<.01	13	0.01			0.02			
140064	<10	<.01	4	0.29			0.59			
140065	<10	<.01	<1	4.86			>15.00	16.51	3534	
140066	<10	<.01	<1	6.45			>15.00	18.55	3884	
140067	<10	<.01	<1	9.51			>15.00	15.32	2553	
140068	<10	<.01	<1	>15.00	22.96		>15.00	23.44	2728	
140069	<10	<.01	9	0.03			0.05		36	
140070	<10	<.01	1	0.90			0.61		204	



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SAMPLE NUMBER	ELEMENT	Al ₂ O ₃	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc
		UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM
140071		<5	2.2	0.9	6	227	88	4	10	<1	<0.2	8	17	11	4.14	651	<10	74	1	3	<20	<20	2	<.01	0.99	>10.00	<.01	<.01	153	3	<2	<1	8	<5
140072		40	947.5	>200.0	2914	>10000	>10000	<1	13	<1	371.2	<5	2335	>2000	>10.00	601	24	11	31	2	1795	151	4	<.01	1.41	6.62	<.01	0.01	39	2	32	<1	4	<5
140073		36	737.1	>200.0	2866	>10000	>10000	<1	12	<1	438.4	<5	2401	>2000	>10.00	762	24	13	29	2	1753	179	4	<.01	1.70	6.71	<.01	0.01	45	2	38	1	3	<5
140074		<5	<0.7	0.7	8	165	370	<1	3	<1	1.5	<5	11	13	0.36	301	<10	32	1	5	<20	<20	2	0.17	8.50	>10.00	0.01	0.07	79	3	<2	6	11	<5
140075		6	6.3	4.7	18	1088	825	3	4	<1	4.2	<5	17	13	0.56	1083	<10	32	3	2	<20	<20	3	<.01	8.47	>10.00	0.01	<.01	85	4	<2	2	12	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140071	<10	<.01	<1	0.04				0.01		9
140072	<10	<.01	<1	>15.00	19.08			9.40		1580
140073	<10	<.01	<1	>15.00	15.34			11.55		1676
140074	<10	<.01	<1	0.03				0.05		
140075	<10	<.01	<1	0.17				0.12		



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
ANALYTICAL BLANK		7	<0.7	<0.2	<1	5	43	<1	<1	<1	<0.2	<5	7	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
ANALYTICAL BLANK		<5	-	<0.2	<1	3	24	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		4	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		4	0.4	0.1	0.5	4	33	0.5	0.5	0.5	0.1	3	5	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	
Standard Deviation		2	-	-	-	1	13	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	
Gannet Standard	2526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	2526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5	-	-	0.5	90	22	111	<1	36	20	<0.2	<5	11	<5	4.76	720	<10	200	46	123	<20	<20	7	3.25	1.63	1.06	0.07	0.33	42	7	4	26	4	10		
Number of Analyses	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	-	0.5	90	22	111	0.5	36	20	0.1	3	11	3	4.76	720	5	200	46	123	10	10	7	3.25	1.63	1.06	0.07	0.33	42	7	4	26	4	10		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18		
USGS GXR-4 STD REF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gannet Standard	760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	760	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PPM	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-	-
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
Number of Analyses		2	2	2	-	-	-	-	-	-
Mean Value		5	.005	0.5	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		.01	<.01	.01	<.0001	<.001	<.001	<.0001	<.001	.005
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 5		<10	0.22	12	-	-	-	-	-	-
Number of Analyses		1	1	1	-	-	-	-	-	-
Mean Value		5	0.22	12	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		1	-	9	-	-	-	-	-	-
USGS GXR-4 STD REF		-	-	-	-	-	-	-	-	8
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	8
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	6
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Garnet Standard		182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		-	-	0.9	285	48	299	3	41	9	1.1	<5	28	<5	2.75	579	<10	65	70	8	<20	<20	4	0.86	1.19	1.40	0.07	0.17	38	3	<2	7	2	<5	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.9	285	48	299	3	41	9	1.1	3	28	3	2.75	579	5	65	70	8	10	10	4	0.86	1.19	1.40	0.07	0.17	38	3	1	7	2	3	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	1.1	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	
BASE METAL REFERENCE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	24.3	>999	1800	36700	-	-	-	-	-	-	-	26.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
CANMET CERTIFIED STD		-	-	-	4.33	-	-	>15.00	-	-
Number of Analyses		-	-	-	1	-	-	1	-	-
Mean Value		-	-	-	4.33	-	-	15.00	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	4.33	4.32	4.33	19.02	19.02	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	4
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	4
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	2
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		<10	<.01	13	-	-	-	-	-	-
Number of Analyses		1	1	1	-	-	-	-	-	-
Mean Value		5	.005	13	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		1	0.01	8	-	-	-	-	-	5
BASE METAL REFERENCE		-	-	-	0.18	-	-	3.43	-	-
Number of Analyses		-	-	-	1	-	-	1	-	-
Mean Value		-	-	-	0.18	-	-	3.43	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	0.18	0.18	0.18	3.67	3.67	-
BCC Base Metal Ref.		-	-	-	8.19	-	-	2.75	-	-
Number of Analyses		-	-	-	1	-	-	1	-	-
Mean Value		-	-	-	8.19	-	-	2.75	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	8.28	8.28	8.28	3.04	3.04	-



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STANDARD NAME	ELEMENT UNITS	Au ₃₀ PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
Fluorspar Granite		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard	1573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	1573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
Fluorspar Granite		-	-	-	-	-	-	-	-	4
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	4
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	3
Lithium Ore		-	-	-	-	-	-	-	-	1878
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	1878
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	1900
Garnet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
139950	<10	<.01	9	0.18			0.07			
Duplicate				0.19			0.08			
139955	<10	<.01	<1	8.87			>15.00	15.64	4224	
Duplicate	<10	<.01	<1							
139956	<10	<.01	<1	12.62			12.32		4485	
Duplicate									4300	
139959	<10	<.01	<1	>15.00	22.62		>15.00	19.87	3412	
Duplicate				>15.00			>15.00			
139964	<10	<.01	<1	>15.00		31.35	>15.00	18.70	2290	
Duplicate				>15.00			>15.00			
139967	<10	<.01	<1	0.26			0.59		84	
Duplicate										
139969	<10	<.01	<1	5.07			4.90		1340	
Duplicate				5.09			4.98			
139972	<10	<.01	<1	0.01			0.01			
Duplicate	<10	<.01	<1							
140035	<10	<.01	1	3.03			13.55		3071	
Duplicate				3.08			13.67			
140038	<10	<.01	<1	3.30			>15.00	15.28	565	
Duplicate									677	
140039	<10	<.01	<1	4.82			>15.00	15.42	624	
Duplicate										
140040	<10	<.01	<1	>15.00		41.76	8.84		1445	
Duplicate				>15.00			8.76			



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
140044 Duplicate		1870	537.1	>200.0	2267	>10000	>10000	<1	8	<1	735.8	<5	8214	>2000	>10.00	660	21	3	77	<1	1633	317	29	<.01	<.01	1.04	<.01	0.02	4	2	38	<1	1	<5	
140046 Prep Duplicate		1686	338.0	>200.0	1829	>10000	>10000	<1	8	<1	728.6	<5	6468	1624	>10.00	656	17	2	87	<1	1549	295	82	<.01	<.01	1.30	<.01	0.02	5	3	41	<1	1	<5	
		2119	267.0	199.0	1459	>10000	>10000	<1	9	<1	831.8	<5	6678	1251	>10.00	747	19	2	109	<1	1212	333	60	<.01	<.01	1.09	<.01	0.02	4	2	51	<1	1	<5	
140050 Duplicate		6	<0.7	<0.2	2	57	97	3	5	<1	0.4	8	18	6	0.82	1113	<10	60	<1	3	<20	<20	2	<.01	4.17	>10.00	<.01	<.01	113	4	<2	1	9	<5	
140052 Duplicate		<5	<0.7	<0.2	4	82	601	1	4	2	5.3	10	14	<5	0.44	2204	<10	18	<1	1	<20	<20	3	<.01	0.74	>10.00	<.01	<.01	114	7	<2	<1	9	<5	
				<0.2	4	93	611	1	4	2	5.3	10	14	6	0.42	2160	<10	18	<1	1	<20	<20	3	<.01	0.72	>10.00	<.01	<.01	109	7	<2	<1	8	<5	
140057 Duplicate		539	331.2	>200.0	1513	>10000	>10000	<1	4	<1	528.3	<5	3125	1753	>10.00	1578	28	4	34	1	1145	237	7	<.01	0.52	7.98	<.01	0.01	22	3	35	<1	3	<5	
140059 Duplicate		1686	328.2	>200.0	1319	>10000	>10000	<1	9	<1	511.5	<5	6307	>2000	>10.00	1136	18	7	57	3	1800	205	11	0.01	0.26	4.92	<.01	0.02	16	2	42	<1	3	<5	
		1652																																	
140061 Duplicate		58	10.5	8.8	45	1695	2193	3	10	<1	13.5	<5	288	59	1.46	1407	<10	70	43	6	33	<20	1	0.04	3.08	>10.00	<.01	0.02	44	2	<2	2	6	<5	
140062 Duplicate		<5	<0.7	<0.2	4	51	140	<1	2	<1	0.4	10	10	<5	0.09	490	<10	22	<1	<1	<20	<20	1	0.02	0.64	>10.00	<.01	<.01	210	2	<2	<1	8	<5	
140067 Duplicate		2576	402.7	>200.0	1318	>10000	>10000	2	15	<1	743.2	<5	6747	1784	>10.00	834	15	4	67	<1	1070	237	16	<.01	0.02	0.93	<.01	0.02	3	1	57	<1	<1	<5	
140068 Duplicate		297	1000.0	>200.0	5245	>10000	>10000	<1	3	<1	920.0	5	5162	>2000	>10.00	981	19	12	36	2	>2000	432	12	0.01	0.04	0.99	<.01	0.01	3	1	114	<1	2	<5	
140071 Prep Duplicate		<5	2.2	0.9	6	227	88	4	10	<1	<0.2	8	17	11	4.14	651	<10	74	1	3	<20	<20	2	<.01	0.99	>10.00	<.01	<.01	153	3	<2	<1	8	<5	
Duplicate		8	2.1	0.7	5	144	70	4	10	<1	<0.2	8	16	9	3.51	594	<10	70	<1	3	<20	<20	2	<.01	1.08	>10.00	<.01	<.01	148	3	<2	<1	8	<5	
				1.0	5	221	68	5	10	<1	<0.2	8	16	9	4.19	657	<10	73	1	3	<20	<20	2	<.01	0.99	>10.00	<.01	<.01	153	3	<2	<1	8	<5	



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140044		<10	<.01	<1	12.47			>15.00	16.21	1615
Duplicate					12.51			>15.00		
140046		<10	<.01	<1	9.17			14.23		1850
Prep Duplicate		<10	<.01	<1	7.22			>15.00	16.85	1556
140050		<10	<.01	<1	0.01			<0.01		
Duplicate										
140052		<10	<.01	<1	0.02			0.08		
Duplicate		<10	<.01	<1	0.02			0.09		
140057		<10	<.01	<1	7.88			12.62		1182
Duplicate					7.90			12.47		
140059		<10	<.01	<1	7.40			9.97		2337
Duplicate										
140061		<10	<.01	<1	0.22			0.27		46
Duplicate										
140062		<10	<.01	<1	0.01			0.01		
Duplicate					0.01			0.02		
140067		<10	<.01	<1	9.51			>15.00	15.32	2553
Duplicate					9.45			>15.00		
140068		<10	<.01	<1	>15.00	22.96		>15.00	23.44	2728
Duplicate										2774
140071		<10	<.01	<1	0.04			0.01		9
Prep Duplicate		<10	<.01	<1	0.03			<0.01		8
Duplicate		<10	<.01	<1						



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag Grav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
140072 Duplicate	40	947.5	>200.0	2914	>10000	>10000	<1	13	<1	371.2	<5	2335	>2000	>10.00	601	24	11	31	2	1795	151	4	<.01	1.41	6.62	<.01	0.01	39	2	32	<1	4	<5	
140073 Duplicate	36	737.1 727.3	>200.0	2866	>10000	>10000	<1	12	<1	438.4	<5	2401	>2000	>10.00	762	24	13	29	2	1753	179	4	<.01	1.70	6.71	<.01	0.01	45	2	38	1	3	<5	
Prep Duplicate Duplicate	8	2.1	0.7	5	144	70	4	10	<1	<0.2	8	16	9	3.51	59%	<10	70	<1	3	<20	<20	2	<.01	1.08	>10.00	<.01	<.01	148	3	<2	<1	8	<5	



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140072		<10	<.01	<1	>15.00	19.08		9.40		1580
Duplicate					>15.00			9.46		
140073		<10	<.01	<1	>15.00	15.34		11.55		1676
Duplicate										
Prep Duplicate		<10	<.01	<1	0.03			<0.01		8
Duplicate					0.03			<0.01		



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.

REPORT: V97-02565.1 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
140035		2.1	12.40
140036		2.8	9.13
140037		2.7	10.50
140038		2.3	11.20
140039		2.3	10.30
140040		1.3	9.87
140041		1.8	0.19
140042		0.8	21.40
140043		0.6	3.80
140044		1.9	27.30
140045		1.0	2.14
140045 DUPLICATE		1.3	2.24
140046		1.4	16.20
140055		0.8	0.14
140056		2.6	45.70
140057		0.8	53.50
140058		1.0	3.42
140059		2.1	17.10
140060		1.0	9.98
140061		0.8	0.62
139951		1.0	1.80
139952		1.2	4.98
139952 DUPLICATE		1.5	4.99
139953		<2.0	14.70
139954		2.8	13.50
139955		1.9	10.80
139956		3.3	14.80
139957		<0.5	0.14
139958		2.5	9.25
139959		3.2	64.60



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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139960		1.6	12.50
139961		1.8	9.88
139962		0.9	73.50
139963		2.8	70.30
139964		1.8	63.40
139965		0.7	0.88
139966		2.2	91.40
139967		1.3	3.03
139968		1.0	4.94
139969		1.1	23.40
140065		2.6	4.97
140066		1.7	7.71
140067		1.7	8.30
140067 DUPLICATE		1.9	8.08
140068		1.4	70.60
140069		0.7	0.36
140070		0.8	5.12
140071		0.9	0.06
140072		0.6	36.50
140073		0.8	43.00



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.

REPORT: V97-02565.3 (COMPLETE)

DATE RECEIVED: 16-FEB-98

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ag	AgGrav	Cu	Pb	Pb	Zn	Zn	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb
		PPM	PPM	PPM	PPM	PCT	PPM	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM
140046 OLD SPLIT	>200.0	337.6	1564	>10000	9.20	>10000	>15.00	15.06	<1	9	<1	693.0	<5	5823	1541	>10.00	618	<10	<1	84	<1	1575	182	89	<.01	<.01	1.56	<.01	0.02	6	4	33	<1	2	
140046 NEW SPLIT	>200.0	269.7	1423	>10000	7.97	>10000	>15.00	16.88	<1	7	<1	779.2	<5	5814	1292	>10.00	728	<10	<1	33	<1	1363	221	89	<.01	<.01	1.37	<.01	0.01	4	4	42	<1	2	
140046 NEW SPLIT	>200.0	278.9	1355	>10000	7.75	>10000	>15.00	16.94	<1	8	<1	771.9	<5	5790	1272	>10.00	689	<10	<1	36	<1	1347	220	89	<.01	<.01	1.35	<.01	0.01	5	3	46	<1	2	



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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT	Sc	Ta	Ti	Zr
		UNITS	PPM	PPM	PCT
140046 OLD SPLIT		<5	<10	<.01	<1
140046 NEW SPLIT		<5	<10	<.01	<1
140046 NEW SPLIT		<5	<10	<.01	<1



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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	
BCC GEOCHEM STD 5		0.7	-	90	15	-	99	-	-	<1	35	20	0.2	<5	10	<5	4.54	690	<10	200	48	126	<20	<20	7	3.20	1.71	1.08	0.06	0.34	38	9	<2	24	5	
Number of Analyses		1	-	1	1	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.7	-	90	15	-	99	-	-	0.5	35	20	0.2	3	10	3	4.54	690	5	200	48	126	10	10	7	3.20	1.71	1.08	0.06	0.34	38	9	1	24	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.7	-	102	11	-	80	-	-	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	
ANALYTICAL BLANK		<0.2	-	<1	4	-	22	-	-	<1	<1	<1	0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Number of Analyses		1	-	1	1	-	1	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		0.1	-	0.5	4	-	22	-	-	0.5	0.5	0.5	0.2	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		0.2	0.005	1	2	<0.01	1	<0.0001	<0.001	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	.005	.01	.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	.01	.01	.01	.01	.01
FA SYNTHETIC STD		-	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD		-	-	-	-	4.34	-	>15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	4.34	-	15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	4.33	-	19.02	19.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02565.3 (COMPLETE)

DATE RECEIVED: 16-FEB-98 DATE PRINTED: 3-MAR-98 PAGE 2B(4/ 6)

PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Sc PPM	Ta PPM	Ti PCT	Zr PPM
BCC GEOCHEM STD 5	10	<10	0.21	13	
Number of Analyses	1	1	1	1	
Mean Value	10	5	0.21	13	
Standard Deviation	-	-	-	-	
Accepted Value	18	1	-	9	
ANALYTICAL BLANK	<5	<10	<.01	<1	
Number of Analyses	1	1	1	1	
Mean Value	3	5	.005	0.5	
Standard Deviation	-	-	-	-	
Accepted Value	.01	.01	<.01	.01	
FA SYNTHETIC STD	-	-	-	-	
Number of Analyses	-	-	-	-	
Mean Value	-	-	-	-	
Standard Deviation	-	-	-	-	
Accepted Value	-	-	-	-	
CANMET CERTIFIED STD	-	-	-	-	
Number of Analyses	-	-	-	-	
Mean Value	-	-	-	-	
Standard Deviation	-	-	-	-	
Accepted Value	-	-	-	-	



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	AgGrav PPM	Cu PPM	Pb PPM	Pb PCT	Zn PPM	Zn PCT	Zn PCT	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM
140046 OLD SPLIT	>200.0	337.6	1564	>10000	9.20	>10000	>15.00	15.06	<1	9	<1	693.0	<5	5823	1541	>10.00	618	<10	<1	84	<1	1575	182	89	<.01	<.01	1.56	<.01	0.02	6	4	33	<1	2	
Prep Duplicate	153.9	241.4																																	
Prep Duplicate		259.7	998	>10000	6.86	>10000	>15.00	17.32	<1	7	<1	661.6	<5	4941	925	>10.00	568	<10	<1	76	<1	957	189	51	<.01	<.01	1.07	<.01	0.01	4	2	33	<1	2	
Duplicate					9.11			14.98																											
140046 NEW SPLIT	>200.0	269.7	1423	>10000	7.97	>10000	>15.00	16.88	<1	7	<1	779.2	<5	5814	1292	>10.00	728	<10	<1	33	<1	1363	221	89	<.01	<.01	1.37	<.01	0.01	4	4	42	<1	2	
Duplicate		269.5																																	
140046 NEW SPLIT	>200.0	278.9	1355	>10000	7.75	>10000	>15.00	16.94	<1	8	<1	771.9	<5	5790	1272	>10.00	689	<10	<1	36	<1	1347	220	89	<.01	<.01	1.35	<.01	0.01	5	3	46	<1	2	
Duplicate		286.3																																	
Prep Duplicate	153.9	259.7	998	>10000	6.86	>10000	>15.00	17.32	<1	7	<1	661.6	<5	4941	925	>10.00	568	<10	<1	76	<1	957	189	51	<.01	<.01	1.07	<.01	0.01	4	2	33	<1	2	
Duplicate		245.4																																	



Intertek Testing Services
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**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02565.3 (COMPLETE)

DATE RECEIVED: 16-FEB-98 DATE PRINTED: 3-MAR-98 PAGE 38(6/ 6)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Sc PPM	Ta PPM	Ti PCT	Zr PPM
140046 OLD SPLIT Prep Duplicate		<5	<10	<.01	<1
Prep Duplicate Duplicate		<5	<10	<.01	<1
140046 NEW SPLIT Duplicate		<5	<10	<.01	<1
140046 NEW SPLIT Duplicate		<5	<10	<.01	<1
Prep Duplicate Duplicate		<5	<10	<.01	<1



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.

REPORT: V97-02535.0 (COMPLETE)

DATE RECEIVED: 22-SEP-97

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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT AU30		AgGrav		Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta
	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	
139973	42	4.2	2.7	40	107	380	24	90	7	2.1	<5	100	59	1.49	5297	<10	101	29	33	<20	<20	<1	0.22	0.17	>10.00	<.01	0.11	295	11	<2	<1	5	<5	<10		
139974	509	57.2	40.0	171	>10000	8650	8	30	3	72.8	<5	5323	1313	>10.00	5658	15	22	71	14	111	<20	36	0.11	0.11	6.64	<.01	0.03	26	14	9	<1	3	<5	<10		
139975	1797	375.0	>200.0	1208	>10000	>10000	<1	8	2	345.9	<5	8914	>2000	>10.00	517	32	10	61	4	>2000	<20	10	0.08	<.01	0.50	<.01	<.01	<1	1	31	<1	2	<5	<10		
139976	2634	360.2	>200.0	888	>10000	>10000	1	9	2	391.1	<5	9732	>2000	>10.00	595	36	13	94	6	>2000	<20	23	0.09	<.01	0.58	<.01	<.01	1	2	36	<1	2	<5	<10		
139977	1940	502.5	>200.0	3676	>10000	9116	<1	11	3	95.6	<5	9428	>2000	>10.00	759	22	10	54	4	>2000	<20	<1	0.09	<.01	1.43	<.01	<.01	4	1	12	<1	2	<5	<10		
139978	1504	1195.9	>200.0	1413	>10000	>10000	<1	21	5	169.0	<5	7325	>2000	>10.00	571	26	10	76	4	1156	<20	<1	0.09	<.01	1.06	<.01	<.01	3	1	16	<1	2	<5	<10		
139979	8	1.8	1.7	8	280	55	<1	2	<1	0.4	<5	22	11	0.32	326	<10	25	3	4	<20	<20	<1	0.10	8.86	>10.00	0.02	0.06	86	4	<2	6	5	<5	<10		
139980	1919	175.0	122.8	618	>10000	>10000	<1	20	4	371.7	<5	8320	616	>10.00	673	31	9	101	4	544	<20	6	0.09	0.02	2.06	<.01	<.01	9	1	34	<1	2	<5	<10		
139981	58	14.2	10.5	65	2296	4425	11	19	3	24.3	<5	266	123	1.41	1899	<10	32	18	6	33	<20	<1	0.03	1.73	>10.00	<.01	<.01	66	3	<2	<1	5	<5	<10		
139982	<5	<0.7	0.2	4	434	4475	<1	7	<1	20.1	<5	11	5	>10.00	253	<10	24	9	3	<20	<20	<1	0.04	0.20	>10.00	<.01	<.01	58	6	<2	<1	5	<5	<10		
139983	<5	<0.7	0.4	6	34	667	<1	7	2	0.6	<5	13	<5	0.28	579	<10	641	<1	<1	<20	<20	<1	0.01	1.22	>10.00	<.01	<.01	129	3	<2	<1	8	<5	<10		
139984	<5	<0.7	<0.2	5	351	4901	<1	4	1	19.0	<5	9	<5	7.26	241	<10	26	6	2	<20	<20	<1	0.03	0.17	>10.00	<.01	<.01	100	4	<2	<1	6	<5	<10		
140076	57	7.9	5.5	11	754	1423	5	11	<1	9.5	<5	272	19	1.40	6463	<10	42	4	7	<20	<20	<1	0.02	0.15	>10.00	<.01	<.01	115	5	<2	<1	7	<5	<10		
140077	890	350.7	>200.0	1667	9215	>10000	3	21	5	796.3	<5	6142	1340	>10.00	1041	37	7	65	4	1434	62	21	0.07	<.01	0.24	<.01	<.01	<1	2	46	<1	2	<5	<10		
140078	724	284.0	191.5	887	9994	>10000	2	14	4	556.1	<5	7168	1007	>10.00	858	38	7	72	3	852	56	9	0.08	<.01	0.51	<.01	<.01	<1	1	40	<1	1	<5	<10		
140079	2246	55.9	41.2	359	5371	>10000	3	23	6	365.0	<5	6265	246	>10.00	1023	29	8	123	3	277	24	3	0.06	<.01	1.12	<.01	<.01	2	2	34	<1	1	<5	<10		
140080	2034	50.6	34.8	453	4421	>10000	<1	20	5	423.4	<5	5559	260	>10.00	899	28	8	106	2	349	<20	2	0.06	<.01	0.66	<.01	<.01	1	1	40	<1	1	<5	<10		
140081	1002	31.0	22.7	290	4286	>10000	10	53	13	321.6	<5	2310	214	9.04	1301	24	10	203	3	199	<20	4	0.04	<.01	0.27	<.01	<.01	1	3	27	<1	<1	<5	<10		
140082	1479	89.9	65.2	342	9545	>10000	4	74	21	224.1	18	7201	448	>10.00	1892	26	9	107	4	301	<20	5	0.07	0.02	1.48	<.01	<.01	4	3	23	<1	1	<5	<10		
140083	4291	465.3	>200.0	1240	>10000	>10000	3	33	9	778.8	<5	9479	1479	>10.00	1331	39	9	84	4	1174	<20	29	0.07	<.01	0.41	<.01	<.01	1	3	54	<1	1	<5	<10		
140084	736	468.7	>200.0	1212	>10000	>10000	2	54	15	442.0	<5	7620	943	>10.00	1564	37	9	49	4	822	<20	8	0.08	0.01	1.19	<.01	<.01	3	3	40	<1	2	<5	<10		
140085	1109	295.8	193.5	951	>10000	>10000	4	74	20	456.6	<5	6720	346	>10.00	1905	35	11	57	4	647	40	13	0.08	0.68	2.04	<.01	<.01	7	3	34	<1	2	<5	<10		
140086	1857	352.9	>200.0	913	9957	>10000	4	78	21	403.4	<5	6992	708	>10.00	1885	31	11	52	4	705	47	29	0.08	0.52	1.59	<.01	<.01	5	4	30	<1	2	<5	<10		
140087	794	168.2	127.7	457	>10000	>10000	14	106	24	226.5	<5	6323	351	>10.00	2981	28	16	65	11	305	22	14	0.09	2.12	4.02	<.01	<.01	20	3	20	<1	2	<5	<10		
140088	2153	52.5	35.4	224	7355	>10000	3	34	8	168.8	<5	9381	132	>10.00	1150	24	15	52	7	153	30	13	0.10	0.34	2.90	<.01	0.01	12	2	15	<1	2	<5	<10		
140089	620	1070.9	>200.0	3566	>10000	>10000	<1	12	5	704.7	<5	8690	>2000	>10.00	913	38	5	37	4	>2000	<20	7	0.05	0.03	1.22	<.01	<.01	4	2	89	<1	2	<5	<10		
140090	6	<0.7	0.7	7	115	143	<1	<1	<1	0.7	<5	18	6	0.24	365	<10	31	8	1	<20	<20	<1	0.01	9.06	>10.00	0.01	<.01	93	1	<2	2	5	<5	<10		
140091	96	32.1	22.8	181	4938	6997	8	65	13	50.0	<5	648	158	3.93	2339	<10	40	20	11	93	<20	1	0.06	2.32	>10.00	<.01	0.01	80	4	2	<1	6	<5	<10		
140092	24	4.1	3.2	26	752	1217	1	9	2	6.4	<5	79	34	0.44	1097	<10	19	2	2	<20	<20	<1	0.02	0.71	>10.00	<.01	<.01	153	4	<2	<1	8	<5	<10		
140093	12	<0.7	0.3	3	22	275	<1	7	2	1.9	<5	7	<5	0.13	680	<10	91	<1	2	<20	<20	<1	0.02	0.66	>10.00	<.01	<.01	195	3	<2	<1	8	<5	<10		



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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PPM
139973	<.01	8	0.01			0.05		
139974	<.01	2	1.78			1.71		155
139975	<.01	<1	6.71			7.95		4382
139976	<.01	<1	6.08			9.36		4026
139977	<.01	<1	8.14			2.01		4086
139978	<.01	<1		25.01		3.51		1441
139979	<.01	<1	0.03			<0.01		<4
139980	<.01	<1	4.30			8.70		842
139981	<.01	<1	0.32			0.76		57
139982	<.01	<1	0.07			0.84		
139983	<.01	<1	<0.01			0.10		
139984	<.01	<1	0.06			0.97		
140076	<.01	<1	0.12			0.22		
140077	<.01	<1	6.87				18.26	11
140078	<.01	<1	5.86			13.04		1171
140079	<.01	<1	0.72			8.21		481
140080	<.01	<1	0.61			9.94		520
140081	<.01	<1	0.51			6.89		274
140082	<.01	<1	1.40			5.49		547
140083	<.01	<1	11.12				16.29	1394
140084	<.01	<1	11.75			10.98		1027
140085	<.01	<1	6.77			12.17		939
140086	<.01	<1	8.00			10.83		1034
140087	<.01	1	4.69			5.42		511
140088	<.01	<1	1.41			3.64		219
140089	<.01	<1		27.40			18.81	1697
140090	<.01	<1	0.01			<0.01		<4
140091	<.01	1	0.71			1.45		162
140092	<.01	<1	0.11			0.16		
140093	<.01	<1	<0.01			0.03		



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SAMPLE NUMBER	ELEMENT UNITS	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
140094		8	1.7	1.5	11	272	908	<1	3	<1	5.8	<5	21	9	0.13	1034	<10	31	1	2	<20	<20	<1	0.02	0.64	>10.00	<.01	<.01	196	3	<2	<1	8	<5	<10
140095		538	429.9	>200.0	2415	>10000	>10000	1	22	6	393.9	<5	5480	>2000	6.69	1392	25	12	29	3	1299	<20	6	0.04	0.89	8.36	<.01	<.01	43	3	43	<1	3	<5	<10
140096		20	17.4	14.6	126	3544	7108	17	80	19	57.0	<5	221	50	2.61	1496	<10	52	148	27	78	<20	<1	0.27	0.57	3.45	<.01	0.10	21	6	2	<1	1	<5	<10
140097		92	19.1	14.5	82	3516	5074	10	56	15	27.2	<5	707	48	4.68	2270	<10	63	64	12	45	<20	<1	0.11	1.96	>10.00	<.01	0.04	48	3	<2	<1	3	<5	<10
140098		<5	<0.7	0.5	7	42	149	1	4	<1	0.4	<5	22	<5	0.71	1377	<10	44	2	2	<20	<20	<1	0.02	0.87	>10.00	<.01	<.01	252	3	<2	<1	7	<5	<10
140099		28	3.5	2.8	38	597	5597	2	31	7	27.6	<5	174	42	1.69	137	<10	77	182	8	20	<20	8	0.26	0.07	0.34	<.01	0.12	21	4	<2	<1	<1	<5	<10
140100		60	1.4	1.0	16	144	676	2	31	9	7.5	<5	388	26	3.70	1693	<10	50	145	8	<20	<20	<1	0.37	1.42	2.99	<.01	0.19	59	7	<2	<1	1	<5	<10
140101		58	16.0	15.5	70	4077	2510	2	30	8	14.2	<5	275	63	2.38	224	<10	30	168	8	35	<20	7	0.29	0.17	0.46	<.01	0.13	21	4	2	<1	<1	<5	<10
140102		60	4.9	4.4	205	433	>10000	1	29	6	123.7	<5	146	26	1.07	82	12	56	169	6	139	<20	8	0.25	<.01	0.13	<.01	0.12	15	3	9	<1	<1	<5	<10
140103		48	10.4	8.5	54	2930	3068	2	30	5	21.4	<5	166	34	1.52	136	<10	80	197	8	27	<20	8	0.32	0.12	0.35	<.01	0.15	16	3	3	<1	<1	<5	<10
140104		115	17.9	15.6	475	3467	>10000	<1	26	6	209.7	<5	556	51	4.38	524	17	31	131	7	280	<20	<1	0.27	0.71	1.80	<.01	0.13	70	4	15	<1	<1	<5	<10
140105		26	2.2	1.4	38	359	1997	1	29	7	13.2	<5	259	11	2.96	958	<10	64	170	7	<20	<20	<1	0.25	1.01	2.35	<.01	0.12	77	5	<2	<1	1	<5	<10
140106		65	3.6	2.7	18	590	382	2	39	9	7.4	<5	630	9	4.06	684	<10	35	138	8	<20	<20	2	0.38	0.73	1.58	<.01	0.18	29	5	<2	<1	1	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PPM
140094		<.01	<1	0.04		0.12		
140095		<.01	<1	12.65		11.62		1473
140096		<.01	5	0.39		1.05		82
140097		<.01	3	0.46		0.79		83
140098		<.01	<1	<0.01		0.01		
140099		<.01	8	0.06		0.65		
140100		<.01	7	0.01		0.07		
140101		<.01	9	0.42		0.26		
140102		<.01	7	0.04		2.42		
140103		<.01	6	0.32		0.33		
140104		<.01	6	0.38		3.93		
140105		<.01	5	0.04		0.23		
140106		<.01	8	0.07		0.03		



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STANDARD NAME	ELEMENT UNITS	Al ₂ O ₃ PPB	Ag Grav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
ANALYTICAL BLANK		<5	<0.7	<0.2	<1	4	9	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	<10
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	4	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	<10
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		3	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		3	0.4	0.1	0.5	3	6	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	
Standard Deviation		-	-	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.01	.01	<0.01	<0.01	<0.0001	<0.01	<0.01	.01	.01	.01	.01	.01	.01	.01	
Gannet Standard	2414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	2414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 5	-	-	0.6	96	14	112	<1	35	19	0.3	<5	14	<5	4.71	675	<10	191	46	116	<20	<20	5	3.08	1.57	0.97	0.06	0.30	36	8	<2	26	2	10	<10		
Number of Analyses	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value	-	-	0.6	96	14	112	0.5	35	19	0.3	3	14	3	4.71	675	5	191	46	116	10	10	5	3.08	1.57	0.97	0.06	0.30	36	8	1	26	2	10	5		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18	1		
USGS GXR-4 STD REF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard	1003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	1003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-
Number of Analyses		2	2	-	-	-	-	-
Mean Value		.005	0.5	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		<.01	.01	<.001	<.001	<.0001	<.001	.005

Gannet Standard	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-

BCC GEOCHEM STD 5	0.20	13	-	-	-	-	-	-
Number of Analyses	1	1	-	-	-	-	-	-
Mean Value	0.20	13	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	9	-	-	-	-	-	-

USGS QXR-4 STD REF	-	-	-	-	-	-	-	9
Number of Analyses	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	9
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	6

Gannet Standard	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Al ₂ O ₃ PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		-	-	0.8	289	28	234	2	40	8	0.9	<5	31	<5	2.74	523	<10	60	65	7	<20	<20	1	0.75	1.11	1.30	0.05	0.14	36	3	<2	5	1	<5	<10	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.8	289	28	234	2	40	8	0.9	3	31	3	2.74	523	5	60	65	7	10	10	1	0.75	1.11	1.30	0.05	0.14	36	3	1	5	1	3	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	1.1	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1	
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard		188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
CANMET CERTIFIED STD		-	-	4.32	-	>15.00	-	-
Number of Analyses		-	-	1	-	1	-	-
Mean Value		-	-	4.32	-	15.00	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	4.33	4.33	19.02	19.02	-
BCC Base Metal Ref.		-	-	5.74	-	11.94	-	-
Number of Analyses		-	-	1	-	1	-	-
Mean Value		-	-	5.74	-	11.94	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	5.66	5.66	11.88	11.88	-
BCC GEOCHEM STD 4	<.01	10	-	-	-	-	-	-
Number of Analyses	1	1	-	-	-	-	-	-
Mean Value	.005	10	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	0.01	8	-	-	-	-	-	5
CANMET SO-2 REF STD	-	-	-	-	-	-	-	<4
Number of Analyses	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	2
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	2
Gannet Standard	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
139973 Duplicate		42	4.2	2.7	40	107	380	24	90	7	2.1	<5	100	59	1.49	5297	<10	101	29	33	<20	<20	<1	0.22	0.17	>10.00	<.01	0.11	295	11	<2	<1	5	<5	<10
139978 Duplicate		1504	1195.9	>200.0	1413	>10000	>10000	<1	21	5	169.0	<5	7325	>2000	>10.00	571	26	10	76	4	1156	<20	<1	0.09	<.01	1.06	<.01	<.01	3	1	16	<1	2	<5	<10
		1445	1193.5	>200.0	1377	>10000	>10000	<1	19	5	153.0	<5	6371	>2000	>10.00	494	25	8	69	3	1014	<20	<1	0.08	<.01	0.99	<.01	<.01	3	1	13	<1	2	<5	<10
139979 Duplicate		8	1.8	1.7	8	280	55	<1	2	<1	0.4	<5	22	11	0.32	326	<10	25	3	4	<20	<20	<1	0.10	8.86	>10.00	0.02	0.06	86	4	<2	6	5	<5	<10
139982 Prep Duplicate		<5	<0.7	0.2	4	434	4475	<1	7	<1	20.1	<5	11	5	>10.00	253	<10	24	9	3	<20	<20	<1	0.04	0.20	>10.00	<.01	<.01	58	6	<2	<1	5	<5	<10
Prep Duplicate		6	<0.7	<0.2	4	457	4755	<1	7	<1	22.5	<5	10	<5	>10.00	261	11	27	9	4	<20	<20	<1	0.04	0.21	>10.00	<.01	<.01	63	6	<2	<1	6	<5	<10
140078 Duplicate		724	284.0	191.5	887	9994	>10000	2	14	4	556.1	<5	7168	1007	>10.00	858	38	7	72	3	852	56	9	0.08	<.01	0.51	<.01	<.01	<1	1	40	<1	1	<5	<10
140081 Duplicate		1002	31.0	22.7	290	4286	>10000	10	53	13	321.6	<5	2310	214	9.04	1301	24	10	203	3	199	<20	4	0.04	<.01	0.27	<.01	<.01	1	3	27	<1	<1	<5	<10
			29.7																																
140083 Duplicate		4291	465.3	>200.0	1240	>10000	>10000	3	33	9	778.8	<5	9479	1479	>10.00	1331	39	9	84	4	1174	<20	29	0.07	<.01	0.41	<.01	<.01	1	3	54	<1	1	<5	<10
140086 Duplicate		1857	352.9	>200.0	913	9957	>10000	4	78	21	403.4	<5	6992	708	>10.00	1885	31	11	52	4	705	47	29	0.08	0.52	1.59	<.01	<.01	5	4	30	<1	2	<5	<10
			>200.0		908	>10000	>10000	4	79	22	422.2	<5	7470	755	>10.00	1944	38	12	54	4	710	27	34	0.08	0.54	1.76	<.01	<.01	6	5	31	<1	3	<5	<10
140088 Duplicate		2153	52.5	35.4	224	7355	>10000	3	34	8	168.8	<5	9381	132	>10.00	1150	24	15	52	7	153	30	13	0.10	0.34	2.90	<.01	0.01	12	2	15	<1	2	<5	<10
140091 Duplicate		96	32.1	22.8	181	4938	6997	8	65	13	50.0	<5	648	158	3.93	2339	<10	40	20	11	93	<20	1	0.06	2.32	>10.00	<.01	0.01	80	4	2	<1	6	<5	<10
		92																																	
140092 Duplicate		24	4.1	3.2	26	752	1217	1	9	2	6.4	<5	79	34	0.44	1097	<10	19	2	2	<20	<20	<1	0.02	0.71	>10.00	<.01	<.01	153	4	<2	<1	8	<5	<10
			3.8																																



Intertek Testing Services

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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PPM
139973		<.01	8	0.01		0.05		
Duplicate				0.01		0.05		
139978		<.01	<1		25.01	3.51		1441
Duplicate		<.01	<1					
139979		<.01	<1	0.03		<0.01		<4
Duplicate								8
139982		<.01	<1	0.07		0.84		
Prep Duplicate		<.01	<1	0.07		0.84		
Prep Duplicate				0.06		0.89		
140078		<.01	<1	5.86		13.04		1171
Duplicate				5.91		13.21		
140081		<.01	<1	0.51		6.89		274
Duplicate								
140083		<.01	<1	11.12		16.29		1394
Duplicate				11.33				
140086		<.01	<1	8.00		10.83		1034
Duplicate		<.01	<1					
140088		<.01	<1	1.41		3.64		219
Duplicate				1.34		3.73		
140091		<.01	1	0.71		1.45		162
Duplicate								151
140092		<.01	<1	0.11		0.16		
Duplicate								



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140093 Duplicate		12	<0.7	0.3	3	22	275	<1	7	2	1.9	<5	7	<5	0.13	680	<10	91	<1	2	<20	<20	<1	0.02	0.66	>10.00	<.01	<.01	195	3	<2	<1	8	<5	<10
140097 Duplicate		92	19.1	14.5	82	3516	5074	10	56	15	27.2	<5	707	48	4.68	2270	<10	63	64	12	45	<20	<1	0.11	1.96	>10.00	<.01	0.04	48	3	<2	<1	3	<5	<10
140103 Duplicate		48	10.4 9.5	8.5	54	2930	3068	2	30	5	21.4	<5	166	34	1.52	136	<10	80	197	8	27	<20	8	0.32	0.12	0.35	<.01	0.15	16	3	3	<1	<1	<5	<10
140104 Prep Duplicate		115	17.9	15.6	475	3467	>10000	<1	26	6	209.7	<5	556	51	4.38	524	17	31	131	7	280	<20	<1	0.27	0.71	1.80	<.01	0.13	70	4	15	<1	<1	<5	<10
		124	15.9	12.9	475	2888	>10000	2	28	6	196.0	<5	514	41	4.19	530	15	23	140	8	258	<20	<1	0.31	0.69	1.74	<.01	0.16	62	4	14	<1	<1	<5	<10
140105 Duplicate		26	2.2	1.4 1.4	38 40	359 350	1997 1950	1 1	29 29	7 7	13.2 13.1	<5 <5	259 258	11 10	2.96 2.90	958 922	<10 <10	64 62	170 172	7 7	<20 <20	<1 <1	0.25 0.24	1.01 0.99	2.35 2.27	<.01 <.01	0.12 0.12	77 75	5 5	<2 <2	<1 <1	1 1	<5 <5	<10 <10	



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SAMPLE NUMBER	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
140093		<.01	<1	<0.01		0.03		
Duplicate				<0.01		0.03		
140097		<.01	3	0.46		0.79		83
Duplicate				0.46		0.81		
140103		<.01	6	0.32		0.33		
Duplicate								
140104		<.01	6	0.38		3.93		
Prep Duplicate		<.01	6	0.34		4.01		
140105		<.01	5	0.04		0.23		
Duplicate		<.01	5	0.04		0.24		



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SAMPLE NUMBER	ELEMENT Ge UNITS	In PPM
139974	<.5	1.64
139974 DUPLICATE	<.5	1.58
139975	<.5	19.90
139976	<.5	16.80
139977	<.5	19.60
139978	<.5	10.10
139979	<.5	0.01
139980	<.5	12.80
139981	<.5	1.80
140077	<.5	17.40
140078	<.5	21.70
140079	<.5	5.50
140079 DUPLICATE	<.5	5.56
140080	<.5	6.47
140081	<.5	3.63
140082	<.5	5.53
140083	<.5	11.20
140084	<.5	11.70
140085	<.5	16.00
140086	<.5	10.80
140087	<.5	12.10
140088	<.5	2.61
140089	<.5	45.90
140090	<.5	<0.01
140091	<.5	3.13
140095	<.5	27.60
140096	<.5	1.94
140097	<.5	0.94



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
139985		28	1.3	1.0	31	45	117	14	62	7	0.8	<5	35	7	1.60	583	<10	63	109	30	<20	<20	<1	0.31	0.70	4.82	<.01	0.12	158	7	<2	1	2	<5	<10
139986		58	10.4	7.9	97	1106	488	56	148	12	3.7	<5	160	87	2.96	799	<10	45	31	50	86	<20	<1	0.39	0.26	>10.00	<.01	0.16	210	12	<2	2	4	<5	<10
139987		662	1247.8	>200.0	2493	>10000	>10000	2	6	<1	496.6	<5	4658	>2000	>10.00	689	37	7	57	5	>2000	<20	14	0.07	<.01	1.70	<.01	<.01	10	3	36	<1	2	<5	<10
139988		42	19.5	14.6	54	3428	2985	2	4	<1	18.9	<5	267	38	1.05	739	<10	158	3	10	26	<20	<1	0.02	0.15	>10.00	<.01	<.01	288	4	<2	<1	7	<5	<10
139989		448	634.3	>200.0	1682	>10000	>10000	2	9	1	622.6	<5	3720	883	>10.00	649	44	10	62	6	1171	<20	9	0.08	<.01	1.11	<.01	<.01	5	1	60	<1	1	<5	<10
139990		3287	119.1	74.1	412	7194	>10000	7	13	2	313.1	<5	7873	308	>10.00	592	28	8	51	7	324	<20	22	0.09	<.01	1.76	<.01	<.01	2	2	18	<1	2	<5	<10
139991		3021	329.3	>200.0	1114	9904	>10000	<1	8	2	1155.1	<5	5541	707	>10.00	1000	47	7	52	5	1006	<20	10	0.08	<.01	0.47	<.01	<.01	1	<1	84	<1	1	<5	<10
139992		2994	284.6	196.4	1149	8082	>10000	3	9	2	945.4	<5	5599	899	>10.00	788	40	7	42	5	1160	<20	6	0.08	<.01	0.92	<.01	<.01	2	<1	39	<1	2	<5	<10
139993		2617	342.5	194.7	956	8379	>10000	<1	10	3	684.5	<5	6240	1418	>10.00	636	36	6	74	4	1202	<20	13	0.08	<.01	0.42	<.01	<.01	<1	<1	32	<1	2	<5	<10
139994		1418	661.7	>200.0	1337	>10000	>10000	1	6	2	868.8	<5	4330	1445	>10.00	666	47	4	57	2	1100	<20	14	0.07	<.01	0.04	<.01	<.01	<1	<1	45	<1	1	<5	<10
139995		1083	539.9	>200.0	963	>10000	>10000	<1	5	2	401.9	<5	4132	>2000	>10.00	296	33	4	73	2	842	<20	8	0.07	<.01	0.06	<.01	<.01	<1	<1	23	<1	1	<5	<10
139996		1457	359.4	>200.0	445	6563	>10000	<1	10	2	290.1	<5	6237	>2000	>10.00	191	29	6	49	4	599	<20	2	0.10	<.01	0.15	<.01	<.01	<1	<1	12	<1	2	<5	<10
139997		3307	332.2	>200.0	476	8883	>10000	<1	8	2	207.2	<5	8192	>2000	>10.00	171	22	5	75	3	1884	<20	10	0.09	<.01	0.19	<.01	<.01	<1	<1	9	<1	2	<5	<10
139998		1538	250.4	172.6	519	9259	>10000	<1	6	1	395.4	<5	4637	>2000	>10.00	376	29	7	88	2	701	<20	10	0.06	<.01	0.47	<.01	<.01	1	1	32	<1	1	<5	<10
139999		1579	326.4	195.0	612	7068	>10000	<1	12	2	502.2	<5	5223	891	>10.00	347	35	7	61	4	764	<20	5	0.09	<.01	0.35	<.01	<.01	<1	<1	36	<1	2	<5	<10
140000		4486	106.2	67.6	280	7803	>10000	4	16	3	179.8	<5	8045	513	>10.00	155	25	9	90	4	254	<20	5	0.11	<.01	0.34	<.01	<.01	1	<1	10	<1	2	<5	<10
140107		108	7.5	7.3	56	1243	6147	10	50	6	36.3	<5	318	50	2.49	244	<10	48	132	19	48	<20	2	0.24	0.02	0.06	<.01	0.10	3	3	3	<1	<1	<5	<10
140108		186	14.8	11.5	48	1389	1696	28	81	9	14.2	<5	572	47	3.57	56	<10	17	90	25	44	<20	2	0.26	0.02	0.11	<.01	0.11	5	2	<2	<1	1	<5	<10
140109		304	41.1	31.3	171	3931	9553	19	64	6	81.5	<5	974	69	5.36	121	<10	12	86	22	140	<20	2	0.22	0.02	0.07	<.01	0.08	3	2	6	<1	1	<5	<10
140110		522	111.1	90.0	157	>10000	8034	11	24	2	74.4	<5	3907	177	>10.00	79	16	10	119	8	113	<20	4	0.12	<.01	0.13	<.01	0.02	1	<1	<2	<1	2	<5	<10
140111		144	21.6	15.4	19	3942	2753	9	13	2	6.9	<5	621	27	3.78	1498	<10	19	17	7	<20	<20	<1	0.04	1.45	>10.00	<.01	<.01	78	9	<2	<1	5	<5	<10
140112		124	17.8	13.0	20	3484	1087	3	9	<1	8.1	<5	688	93	3.40	1009	<10	23	38	4	<20	<20	<1	0.02	0.47	>10.00	<.01	<.01	85	5	<2	<1	6	<5	<10
140113		8	1.4	0.8	3	158	1281	3	8	<1	8.3	<5	112	132	0.84	930	<10	19	3	3	<20	<20	<1	0.01	0.82	>10.00	<.01	<.01	117	4	<2	<1	7	<5	<10
140114		10	3.3	2.3	33	571	2221	3	18	1	15.6	<5	243	237	1.92	1337	<10	14	18	27	<20	<20	<1	0.30	3.06	>10.00	<.01	<.01	102	5	<2	<1	5	<5	<10
140115		237	4.9	3.8	30	326	1166	7	9	1	10.8	<5	324	38	3.16	1007	<10	9	56	4	<20	<20	<1	0.05	0.05	>10.00	<.01	<.01	44	5	<2	<1	3	<5	<10
140116		53	4.1	3.0	118	462	4285	3	11	2	38.2	<5	2008	23	>10.00	1422	<10	10	43	14	<20	<20	<1	0.13	1.31	9.73	<.01	<.01	45	4	<2	<1	4	<5	<10
140117		306	5.1	3.6	252	616	4382	2	12	2	47.6	<5	2780	29	>10.00	1347	11	11	33	25	<20	<20	<1	0.23	1.74	6.46	<.01	<.01	37	3	<2	<1	4	<5	<10
140118		<5	<0.7	<0.2	<1	10	46	<1	<1	<1	0.4	<5	5	<5	0.16	400	<10	255	10	2	<20	<20	<1	0.02	8.51	>10.00	<.01	<.01	132	1	<2	2	5	<5	<10
140119		20	4.0	3.2	30	567	2016	3	7	<1	13.6	<5	155	25	1.57	1636	<10	17	37	10	<20	<20	<1	0.05	2.04	>10.00	<.01	<.01	71	3	<2	<1	5	<5	<10
140120		<5	1.8	0.7	3	101	6068	1	21	4	33.7	<5	30	72	2.58	1578	<10	18	16	4	<20	<20	<1	0.04	0.07	>10.00	<.01	<.01	98	4	<2	<1	5	<5	<10



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

PROJECT: SILVERTIP

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-0262B.0 (COMPLETE)

DATE RECEIVED: 29-SEP-97 DATE PRINTED: 23-OCT-97 PAGE 1B(2/18)

SAMPLE NUMBER	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
139985		<.01	8	<0.01			<0.01			
139986		<.01	11	0.15			0.06			
139987		<.01	3	>15.00	27.58		11.75			4690
139988		<.01	<1	0.52			0.50			67
139989		<.01	2	>15.00	16.75		>15.00	18.16		1081
139990		<.01	3	2.65			6.93			534
139991		<.01	2	5.95			>15.00	29.02		2023
139992		<.01	2	5.09			>15.00	20.08		1843
139993		<.01	2	6.28			>15.00	17.06		1696
139994		<.01	2	13.20			>15.00	20.45		1311
139995		<.01	2	12.23			9.88			1008
139996		<.01	3	9.08			6.44			1573
139997		<.01	3	6.50			4.06			3766
139998		<.01	2	5.71			8.92			1359
139999		<.01	3	5.90			13.38			1780
140000		<.01	3	1.93			3.27			680
140107		<.01	7	0.13			0.68			
140108		<.01	9	0.18			0.21			
140109		<.01	8	0.51			1.47			
140110		<.01	4	2.92			1.34			129
140111		<.01	2	0.57			0.44			27
140112		<.01	1	0.51			0.17			26
140113		<.01	1	0.03			0.21			
140114		<.01	1	0.10			0.38			
140115		<.01	<1	0.05			0.17			
140116		<.01	1	0.08			0.76			
140117		<.01	2	0.10			0.77			
140118		<.01	<1	<0.01			<0.01			
140119		<.01	<1	0.07			0.29			
140120		<.01	1	0.02			1.05			



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 29-SEP-97 DATE PRINTED: 23-OCT-97 PAGE 2A(3/18)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PP8	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140121		<5	<0.7	0.6	15	70	9983	2	29	4	79.0	<5	90	170	3.78	1876	10	54	43	4	<20	<20	<1	0.07	0.08	>10.00	<.01	<.01	81	5	<2	<1	4	<5	<10
140122		<5	<0.7	0.3	34	31	>10000	<1	22	4	84.6	<5	55	86	3.50	1146	10	94	27	3	<20	<20	<1	0.05	0.35	>10.00	<.01	<.01	97	5	<2	<1	4	<5	<10
140123		<5	<0.7	<0.2	29	23	>10000	<1	19	3	94.9	<5	32	50	3.55	757	11	100	9	3	<20	<20	<1	0.07	0.65	>10.00	<.01	<.01	105	4	<2	<1	6	<5	<10
140124		<5	<0.7	0.4	507	118	>10000	<1	25	5	194.6	<5	76	61	8.94	936	19	17	15	5	<20	<20	<1	0.15	0.38	>10.00	<.01	<.01	96	8	<2	<1	5	<5	<10
140125		7	1.8	1.1	17	213	3811	<1	5	<1	21.5	<5	32	27	2.69	219	<10	16	7	1	<20	<20	<1	0.03	0.49	>10.00	<.01	<.01	115	2	<2	<1	6	<5	<10
140126		<5	12.2	10.0	196	1858	>10000	<1	41	11	307.3	<5	68	47	9.21	1324	24	8	3	4	<20	<20	<1	0.16	0.26	>10.00	<.01	<.01	87	7	<2	<1	5	<5	<10
140127		<5	<0.7	0.3	1	54	643	<1	3	<1	3.3	<5	9	<5	0.29	227	<10	8	1	<1	<20	<20	<1	0.01	0.24	>10.00	<.01	<.01	169	3	<2	<1	7	<5	<10
140128		<5	<0.7	0.4	2	26	2452	<1	5	<1	13.9	<5	10	17	1.99	489	<10	5	2	2	<20	<20	<1	0.03	0.52	>10.00	<.01	<.01	128	4	<2	<1	7	<5	<10
140129		<5	1.9	1.4	78	13	2728	<1	8	3	11.6	<5	276	<5	>10.00	1297	10	6	37	1	46	<20	2	0.05	0.10	>10.00	<.01	<.01	83	3	<2	<1	5	<5	<10
140130		<5	2.0	1.5	81	10	1940	<1	9	3	7.6	<5	151	<5	9.76	1144	<10	5	30	1	48	<20	<1	0.04	0.12	>10.00	<.01	<.01	100	2	<2	<1	6	<5	<10
140131		<5	<0.7	0.5	25	12	1159	<1	3	<1	6.5	<5	78	6	4.24	722	<10	15	15	<1	<20	<20	<1	0.03	0.26	>10.00	<.01	<.01	163	2	<2	<1	7	<5	<10
140132		<5	<0.7	<0.2	15	5	3286	<1	8	1	19.8	<5	5	7	0.79	708	<10	48	2	1	<20	<20	<1	0.03	1.76	>10.00	<.01	<.01	121	3	<2	<1	7	<5	<10
140201		694	724.0	>200.0	902	>10000	>10000	2	13	2	426.4	<5	3910	>2000	>10.00	515	30	8	104	3	>2000	<20	14	0.06	<.01	1.01	<.01	<.01	3	2	26	<1	1	<5	<10
140202		1728	1844.4	>200.0	890	>10000	>10000	3	13	4	289.5	<5	7131	>2000	>10.00	257	26	5	49	2	>2000	<20	8	0.07	<.01	0.10	<.01	<.01	<1	<1	18	<1	1	<5	<10
140203		<5	2.5	2.3	2	337	255	<1	<1	<1	1.8	<5	11	17	0.22	358	<10	133	4	1	<20	<20	<1	0.02	8.38	>10.00	<.01	<.01	137	1	<2	2	5	<5	<10
140204		6301	198.2	140.2	761	8082	>10000	5	15	4	434.2	<5	>10000	892	>10.00	268	33	8	68	4	553	<20	3	0.11	<.01	0.17	<.01	<.01	<1	<1	24	<1	2	<5	<10
140205		5147	194.2	136.1	792	8661	>10000	3	14	4	504.8	<5	>10000	724	>10.00	317	36	7	68	4	575	<20	3	0.11	<.01	0.16	<.01	<.01	<1	<1	26	<1	2	<5	<10
140206		3117	503.6	>200.0	1331	>10000	>10000	7	14	4	848.9	<5	7161	>2000	>10.00	615	39	6	59	4	>2000	<20	23	0.09	<.01	0.15	<.01	<.01	<1	<1	49	<1	2	<5	<10
140207		589	899.4	>200.0	2654	>10000	>10000	<1	12	5	592.6	<5	7360	>2000	>10.00	838	42	12	40	5	>2000	<20	6	0.08	0.02	0.13	<.01	<.01	<1	2	68	<1	2	<5	<10
140208		7	3.6	2.6	8	507	372	<1	2	<1	1.9	<5	20	14	0.12	510	<10	45	<1	2	<20	<20	<1	<.01	0.27	>10.00	<.01	<.01	141	2	<2	<1	7	<5	<10
140209		38	9.3	6.9	55	1538	>10000	<1	42	14	67.7	<5	182	48	>10.00	4075	23	80	7	9	30	<20	2	0.25	2.60	6.03	<.01	0.05	21	36	<2	4	4	<5	<10
140210		6	1.7	1.2	53	159	583	33	115	11	3.9	<5	125	29	2.34	171	<10	46	44	47	<20	<20	<1	0.39	0.21	8.48	<.01	0.16	214	9	<2	1	4	<5	<10
140211		<5	2.8	1.3	8	304	202	7	13	<1	1.2	<5	27	9	0.42	469	<10	261	4	16	<20	<20	<1	0.05	0.13	>10.00	<.01	0.02	553	4	<2	<1	7	<5	<10
140212		1072	577.1	>200.0	1647	>10000	>10000	<1	6	<1	385.6	<5	6252	>2000	>10.00	356	35	8	64	3	>2000	<20	<1	0.09	<.01	0.45	<.01	<.01	1	<1	29	<1	2	<5	<10
140213		1267	558.8	>200.0	1751	>10000	>10000	<1	7	<1	356.0	<5	6682	>2000	>10.00	319	32	7	54	3	>2000	<20	2	0.09	<.01	0.38	<.01	<.01	1	<1	23	<1	2	<5	<10
140214		1687	663.5	>200.0	2684	>10000	>10000	<1	7	1	358.6	<5	7038	>2000	>10.00	455	33	7	57	3	>2000	<20	<1	0.10	<.01	0.31	<.01	<.01	<1	<1	21	<1	2	<5	<10
140215		10	3.1	2.5	11	398	329	<1	<1	<1	2.0	<5	27	38	0.26	369	<10	131	4	2	27	<20	<1	0.02	8.26	>10.00	<.01	<.01	160	1	<2	2	5	<5	<10
140216		2444	629.9	>200.0	5016	>10000	>10000	<1	3	<1	282.2	<5	8216	>2000	>10.00	404	32	11	46	3	>2000	<20	2	0.10	<.01	0.49	<.01	<.01	2	<1	16	<1	2	<5	<10
140217		1877	133.9	91.1	899	7778	>10000	<1	15	4	378.7	<5	9444	1094	>10.00	826	38	10	60	5	762	<20	<1	0.13	0.01	1.36	<.01	<.01	8	1	29	<1	3	<5	<10
140218		2036	221.8	150.0	1505	7796	>10000	<1	8	3	457.1	<5	6744	1596	>10.00	578	38	7	45	3	1189	<20	<1	0.11	<.01	0.51	<.01	<.01	<1	<1	37	<1	2	<5	<10



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

DATE RECEIVED: 29-SEP-97

DATE PRINTED: 23-OCT-97 PAGE 2B(4/18)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
140121		<.01	1	0.01			2.15			
140122		<.01	<1	<0.01			2.24			
140123		<.01	<1	<0.01			2.51			
140124		<.01	1	0.02			4.44			
140125		<.01	<1	0.04			0.75			
140126		<.01	1	0.32			9.91			
140127		<.01	<1	0.01			0.10			
140128		<.01	<1	<0.01			0.39			
140129		<.01	1	<0.01			0.42			
140130		<.01	1	<0.01			0.31			
140131		<.01	<1	<0.01			0.18			
140132		<.01	<1	<0.01			0.54			
140201		<.01	2	>15.00	15.10		7.95			3249
140202		<.01	2	>15.00		38.93	4.72			2146
140203		<.01	<1	0.06			0.04			16
140204		<.01	3	4.45			8.17			1137
140205		<.01	3	4.00			9.68			1171
140206		<.01	2	12.96			>15.00	16.23		3388
140207		<.01	2	>15.00	21.74		14.49			1568
140208		<.01	<1	0.08			0.06			14
140209		<.01	4	0.24			3.58			
140210		<.01	15	0.02			0.07			
140211		<.01	2	0.05			0.02			
140212		<.01	3	11.07			9.87			4092
140213		<.01	3	10.28			8.45			4548
140214		<.01	3	11.14			8.02			9290
140215		<.01	<1	0.07			0.04			30
140216		<.01	3	10.86			5.67			8270
140217		<.01	4	2.75			9.87			1160
140218		<.01	3	4.71			12.64			1530



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DATE RECEIVED: 29-SEP-97 DATE PRINTED: 23-OCT-97 PAGE 3A(5/18)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140219	1742	461.0	>200.0	2463	9401	>10000	<1	23	7	478.6	<5	7344	>2000	>10.00	1038	39	9	68	4	1921	<20	<1	0.12	0.01	0.30	<.01	<.01	2	3	43	<1	3	<5	<10	
140220	240	33.0	25.0	243	4869	9272	3	22	4	81.9	<5	974	380	4.51	1535	10	25	79	7	178	<20	<1	0.05	0.05	>10.00	<.01	0.01	111	4	6	<1	4	<5	<10	
140221	711	208.7	150.8	632	>10000	>10000	1	20	3	206.1	6	3180	1025	>10.00	1021	23	15	65	4	491	<20	<1	0.07	0.08	8.87	<.01	<.01	46	2	17	<1	4	<5	<10	
140222	1205	143.6	102.3	879	8059	>10000	<1	28	6	372.2	<5	5203	1395	>10.00	1210	34	11	66	4	606	<20	<1	0.10	0.08	3.75	<.01	<.01	26	2	36	<1	3	<5	<10	
140223	202	23.8	18.4	126	3546	5666	<1	5	<1	45.5	<5	776	154	2.97	889	<10	24	8	3	88	<20	<1	0.03	0.30	>10.00	<.01	<.01	101	4	<2	<1	6	<5	<10	
140224	6	<0.7	0.4	<1	63	111	<1	2	<1	0.5	<5	12	<5	0.27	200	<10	77	1	3	<20	<20	<1	0.01	0.37	>10.00	<.01	<.01	136	2	<2	<1	7	<5	<10	
140241	<5	4.5	3.0	28	186	2156	38	82	8	11.9	<5	66	52	3.77	881	<10	28	103	22	<20	<20	<1	0.20	0.10	8.00	<.01	0.09	55	6	<2	<1	3	<5	<10	
140242	179	376.6	>200.0	1713	>10000	>10000	3	18	4	320.5	<5	2410	>2000	>10.00	641	29	10	93	4	1202	<20	<1	0.07	0.02	2.88	<.01	0.01	15	3	27	<1	2	<5	<10	
140243	<5	<0.7	0.4	1	55	86	<1	1	<1	0.5	<5	8	<5	0.20	346	<10	60	7	1	<20	<20	<1	0.02	8.55	>10.00	0.01	<.01	93	1	<2	2	5	<5	<10	
140244	<5	<0.7	0.6	2	88	280	<1	2	<1	0.8	<5	8	<5	0.05	1138	<10	10	4	2	<20	<20	<1	0.01	0.17	>10.00	<.01	<.01	153	4	<2	<1	7	<5	<10	



Intertek Testing Services
Bondar Clegg

**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

DATE RECEIVED: 29-SEP-97

DATE PRINTED: 23-OCT-97

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM
140219	<.01	4	9.01				13.42			3235
140220	<.01	1	0.66				1.90			293
140221	<.01	2	4.48				4.58			735
140222	<.01	3	2.98				8.43			859
140223	<.01	<1	0.56				1.14			
140224	<.01	<1	0.01				0.01			
140241	<.01	8	0.02				0.29			19
140242	<.01	2	8.03				7.27			1297
140243	<.01	<1	<0.01				<0.01			<4
140244	<.01	<1	0.01				0.03			



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 29-SEP-97 DATE PRINTED: 23-OCT-97 PAGE 4A(7/18)

STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	76	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	6	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		4	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		3	-	0.1	0.5	1	41	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	
Standard Deviation		-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	
Gannet Standard	1543	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1543	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gannet Standard	1021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 5	-	-	0.5	81	9	84	<1	31	19	<0.2	<5	11	<5	4.70	667	<10	190	47	114	<20	<20	5	3.07	1.54	0.96	0.06	0.31	37	8	<2	25	6	10	<10		
Number of Analyses	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	-	0.5	81	9	84	0.5	31	19	0.1	3	11	3	4.70	667	5	190	47	114	10	10	5	3.07	1.54	0.96	0.06	0.31	37	8	1	25	6	10	5		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	1	18	1			
Gannet Standard	374	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	374	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intertek Testing Services

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Geochemical Lab Report

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PROJECT: SILVERTIP

DATE RECEIVED: 29-SEP-97 DATE PRINTED: 23-OCT-97 PAGE 48(8/18)

STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-	-	-
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
Number of Analyses		2	2	-	-	-	-	-	-	-
Mean Value		.005	0.5	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		<.01	.01	<.0001	<.001	<.001	<.0001	<.001	<.001	.005

Gannet Standard	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-

Gannet Standard	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-

BCC GEOCHEM STD 5	0.19	13	-	-	-	-	-	-	-	-
Number of Analyses	1	1	-	-	-	-	-	-	-	-
Mean Value	0.19	13	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	9	-	-	-	-	-	-	-	-

Gannet Standard	-	-	-	-	-	-	-	-	-	-
Number of Analyses	-	-	-	-	-	-	-	-	-	-
Mean Value	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	-	-	-



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
BASE METAL REFERENCE		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	24.3	>999	1800	36700	-	-	-	-	-	-	-	26.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard	2423	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value	2423	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value	2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		-	-	1.2	263	96	276	3	38	8	1.2	<5	31	7	2.79	530	<10	62	71	7	<20	<20	2	0.82	1.10	1.29	0.06	0.15	37	3	<2	5	<1	<5	<10	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	1.2	263	96	276	3	38	8	1.2	3	31	7	2.79	530	5	62	71	7	10	10	2	0.82	1.10	1.29	0.06	0.15	37	3	1	5	0.5	3	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	1.1	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1	
FA SYNTHETIC STD		-	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

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PROJECT: SILVERTIP
DATE RECEIVED: 29-SEP-97 DATE PRINTED: 23-OCT-97 PAGE 58(10/18)

STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
BASE METAL REFERENCE		-	-	0.18	-	-	-	-	-	-
Number of Analyses		-	-	1	-	-	-	-	-	-
Mean Value		-	-	0.18	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	0.18	0.18	0.18	3.67	3.67	3.67	-
Lithium Ore		-	-	-	-	-	-	-	-	1981
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	1981
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	1900
Garnet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		<.01	11	-	-	-	-	-	-	-
Number of Analyses		1	1	-	-	-	-	-	-	-
Mean Value		.005	11	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		0.01	8	-	-	-	-	-	-	5
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC Base Metal Ref.		-	-	5.73	-	-	11.88	-	-	-
Number of Analyses		-	-	1	-	-	1	-	-	-
Mean Value		-	-	5.73	-	-	11.88	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	5.66	5.66	5.66	11.88	11.88	11.88	-



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STANDARD NAME	ELEMENT UNITS	Al ₂ O ₃ PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
USDI STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USGS GXR-4 STD REF		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-D2628.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 29-SEP-97 DATE PRINTED: 23-OCT-97 PAGE 68(12/18)

STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
USDI STD		-	-	-	-	-	-	-	-	54
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	54
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	55
USGS GXR-4 STD REF		-	-	-	-	-	-	-	-	<4
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	2
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	6
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	<4
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	2
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	2
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 29-SEP-97 DATE PRINTED: 23-OCT-97 PAGE 7A(13/18)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
139985 Duplicate	28	1.3	1.0	31	45	117	14	62	7	0.8	<5	35	7	1.60	583	<10	63	109	30	<20	<20	<1	0.31	0.70	4.82	<.01	0.12	158	7	<2	1	2	<5	<10	
139990 Duplicate	3287	119.1 124.4	74.1	412	7194	>10000	7	13	2	313.1	<5	7873	308	>10.00	592	28	8	51	7	324	<20	22	0.09	<.01	1.76	<.01	<.01	2	2	18	<1	2	<5	<10	
139993 Duplicate	2617 2741	342.5 >200.0	194.7 1164	956 >10000	8379 >10000	<1 >10000	10 13	3 4	684.5 803.7	<5 <5	6240 7049	1418 1711	>10.00 >10.00	636 763	36 40	6 8	74 86	4 4	1202 1417	<20 <20	13 16	0.08 0.09	<.01 <.01	0.42 0.51	<.01 <.01	<.01 <.01	<1 <1	<1 39	<1 <1	2 2	<5 <5	<10 <10			
139994 Duplicate	1418	661.7	>200.0	1337	>10000	>10000	1	6	2	868.8	<5	4330	1445	>10.00	666	47	4	57	2	1100	<20	14	0.07	<.01	0.04	<.01	<.01	<1	<1	45	<1	1	<5	<10	
139999 Duplicate	1579	326.4	195.0	612	7068	>10000	<1	12	2	502.2	<5	5223	891	>10.00	347	35	7	61	4	764	<20	5	0.09	<.01	0.35	<.01	<.01	<1	<1	36	<1	2	<5	<10	
140108 Duplicate	186	14.8 15.6	11.5	48	1389	1696	28	81	9	14.2	<5	572	47	3.57	56	<10	17	90	25	44	<20	2	0.26	0.02	0.11	<.01	0.11	5	2	<2	<1	1	<5	<10	
140110 Duplicate	522	111.1	90.0	157	>10000	8034	11	24	2	74.4	<5	3907	177	>10.00	79	16	10	119	8	113	<20	4	0.12	<.01	0.13	<.01	0.02	1	<1	<2	<1	2	<5	<10	
140115 Duplicate	237	4.9	3.8	30	326	1166	7	9	1	10.8	<5	324	38	3.16	1007	<10	9	56	4	<20	<20	<1	0.05	0.05	>10.00	<.01	<.01	44	5	<2	<1	3	<5	<10	
140116 Duplicate	53	4.1	3.0 2.7	118 111	462 467	4285 3737	3 3	11 11	2 2	38.2 34.9	<5 <5	2008 1843	23 23	>10.00 >10.00	1422 1253	<10 <10	10 11	43 40	14 14	<20 <20	<20 <20	<1 <1	0.13 0.12	1.31 1.20	9.73 >10.00	<.01 <.01	<.01 <.01	45 48	4 4	<2 <2	<1 <1	4 4	<5 <5	<10 <10	
140119 Duplicate	20	4.0 3.9	3.2	30	567	2016	3	7	<1	13.6	<5	155	25	1.57	1636	<10	17	37	10	<20	<20	<1	0.05	2.04	>10.00	<.01	<.01	71	3	<2	<1	5	<5	<10	
140120 Prep Duplicate	<5	1.8	0.7	3	101	6068	1	21	4	33.7	<5	30	72	2.58	1578	<10	18	16	4	<20	<20	<1	0.04	0.07	>10.00	<.01	<.01	98	4	<2	<1	5	<5	<10	
Prep Duplicate	<5	2.2	0.8	3	108	6017	1	22	4	32.6	<5	34	77	2.64	1576	<10	22	20	5	<20	<20	<1	0.05	0.07	>10.00	<.01	<.01	93	4	<2	<1	5	<5	<10	



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

DATE RECEIVED: 29-SEP-97

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
139985		<.01	8	<0.01			<0.01			
Duplicate				<0.01			<0.01			
139990		<.01	3	2.65			6.93			534
Duplicate										
139993		<.01	2	6.28			>15.00	17.06		1696
Duplicate		<.01	3							
139994		<.01	2	13.20			>15.00	20.45		1311
Duplicate				13.02			>15.00			
139999		<.01	3	5.90			13.38			1780
Duplicate				5.83			13.36			
140108		<.01	9	0.18			0.21			
Duplicate										
140110		<.01	4	2.92			1.34			129
Duplicate				2.91			1.36			
140115		<.01	<1	0.05			0.17			
Duplicate				0.05			0.17			
140116		<.01	1	0.08			0.76			
Duplicate		<.01	1							
140119		<.01	<1	0.07			0.29			
Duplicate										
140120		<.01	1	0.02			1.05			
Prep Duplicate		<.01	1	0.02			1.02			
Prep Duplicate				0.02			1.06			



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

DATE RECEIVED: 29-SEP-97

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140121 Duplicate		<5	<0.7	0.6	15	70	9983	2	29	4	79.0	<5	90	170	3.78	1876	10	54	43	4	<20	<20	<1	0.07	0.08	>10.00	<.01	<.01	81	5	<2	<1	4	<5	<10
140124 Duplicate		<5	<0.7	0.4	507	118	>10000	<1	25	5	194.6	<5	76	61	8.94	936	19	17	15	5	<20	<20	<1	0.15	0.38	>10.00	<.01	<.01	96	8	<2	<1	5	<5	<10
140130 Duplicate		<5	2.0 2.0	1.5	81	10	1940	<1	9	3	7.6	<5	151	<5	9.76	1144	<10	5	30	1	48	<20	<1	0.04	0.12	>10.00	<.01	<.01	100	2	<2	<1	6	<5	<10
140132 Duplicate		<5	<0.7	<0.2	15	5	3286	<1	8	1	19.8	<5	5	7	0.79	708	<10	48	2	1	<20	<20	<1	0.03	1.76	>10.00	<.01	<.01	121	3	<2	<1	7	<5	<10
140201 Duplicate		694	724.0	>200.0	902	>10000	>10000	2	13	2	426.4	<5	3910	>2000	>10.00	515	30	8	104	3	>2000	<20	14	0.06	<.01	1.01	<.01	<.01	3	2	26	<1	1	<5	<10
140203 Duplicate		<5	2.5	2.3	2	337	255	<1	<1	<1	1.8	<5	11	17	0.22	358	<10	133	4	1	<20	<20	<1	0.02	8.38	>10.00	<.01	<.01	137	1	<2	2	5	<5	<10
				1.8	2	261	234	<1	<1	<1	1.6	<5	10	13	0.21	343	<10	131	4	1	<20	<20	<1	0.02	8.13	>10.00	<.01	<.01	131	1	<2	2	5	<5	<10
140205 Duplicate		5147	194.2	136.1	792	8661	>10000	3	14	4	504.8	<5	>10000	724	>10.00	317	36	7	68	4	575	<20	3	0.11	<.01	0.16	<.01	<.01	<1	<1	26	<1	2	<5	<10
140209 Duplicate		38	9.3 10.3	6.9	55	1538	>10000	<1	42	14	67.7	<5	182	48	>10.00	4075	23	80	7	9	30	<20	2	0.25	2.60	6.03	<.01	0.05	21	36	<2	4	4	<5	<10
140210 Prep Duplicate		6	1.7	1.2	53	159	583	33	115	11	3.9	<5	125	29	2.34	171	<10	46	44	47	<20	<20	<1	0.39	0.21	8.48	<.01	0.16	214	9	<2	1	4	<5	<10
Prep Duplicate		6	2.8	1.3	54	146	546	32	116	11	3.9	<5	130	31	2.44	175	<10	42	57	53	<20	<20	<1	0.48	0.20	8.08	<.01	0.20	196	9	<2	2	4	<5	<10
		6																																	
140212 Duplicate		1072	577.1	>200.0	1647	>10000	>10000	<1	6	<1	385.6	<5	6252	>2000	>10.00	356	35	8	64	3	>2000	<20	<1	0.09	<.01	0.45	<.01	<.01	1	<1	29	<1	2	<5	<10
140215 Duplicate		10	3.1	2.5	11	398	329	<1	<1	<1	2.0	<5	27	38	0.26	369	<10	131	4	2	27	<20	<1	0.02	8.26	>10.00	<.01	<.01	160	1	<2	2	5	<5	<10



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.0 (COMPLETE)

PROJECT: SILVERTIP

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SAMPLE NUMBER	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Zn PCT	Sn PPM
140121 Duplicate		<.01	1	0.01			2.15			
140124 Duplicate		<.01	1	0.02 0.02			4.44 4.52			
140130 Duplicate		<.01	1	<0.01			0.31			
140132 Duplicate		<.01	<1	<0.01 <0.01			0.54 0.54			
140201 Duplicate		<.01	2	>15.00	15.10		7.95			3249 3169
140203 Duplicate		<.01 <.01	<1 <1	0.06			0.04			16
140205 Duplicate		<.01	3	4.00 3.97			9.68 9.66			1171
140209 Duplicate		<.01	4	0.24			3.58			
140210 Prep Duplicate Prep Duplicate		<.01 <.01	15 15	0.02 0.02 0.02			0.07 0.07 0.06			
140212 Duplicate		<.01	3	11.07			9.87			4092 4169
140215 Duplicate		<.01	<1	0.07 0.06			0.04 0.05			30



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.

PROJECT: SILVERTIP

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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag Grav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140220 Duplicate		240	33.0	25.0 25.3	243 251	4869 4933	9272 9194	3 3	22 23	4 4	81.9 82.8	<5 <5	974 983	380 385	4.51 4.58	1535 1547	10 10	25 26	79 81	7 7	178 172	<20 <20	<1 <1	0.05 0.05	0.05 0.06	>10.00 >10.00	<.01 <.01	0.01 0.01	111 115	4 4	6 7	<1 <1	4 5	<5 <5	<10 <10
140221 Duplicate		711	208.7 207.2	150.8	632	>10000 >10000	1	20	3	206.1	6	3180	1025	>10.00	1021	23	15	65	4	491	<20	<1	0.07	0.08	8.87	<.01 <.01	<.01 <.01	46	2	17	<1	4	<5 <5	<10 <10	
140224 Duplicate		6	<0.7	0.4	<1	63	111	<1	2	<1	0.5	<5	12	<5	0.27	200	<10	77	1	3	<20 <20	<1 <1	0.01	0.37	>10.00 >10.00	<.01 <.01	<.01 <.01	136	2	<2 <2	<1 <1	7 7	<5 <5	<10 <10	



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PCT	PCT	PPM
140220		<.01	1	0.66			1.90			293
Duplicate		<.01	1	0.66			1.98			
140221		<.01	2	4.48			4.58			735
Duplicate										
140224		<.01	<1	0.01			0.01			
Duplicate				<0.01			<0.01			



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02628.1 (COMPLETE)

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PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
139987		1.0	46.40
139987 DUPLICATE		0.8	40.50
139988		0.9	2.22
139989		1.1	123.00
139990		2.1	5.29
139991		1.6	21.00
139992		1.0	5.21
139993		2.2	10.40
139994		2.8	34.50
139995		3.4	12.70
139996		1.1	3.51
139997		1.6	2.76
139997 DUPLICATE		1.8	2.79
139998		1.3	4.02
139999		0.9	3.62
140000		1.5	0.60
140201		1.2	5.53
140202		0.9	1.95
140203		1.1	0.16
140204		2.4	1.71
140205		2.3	2.52
V97-17377/17378 STDA		2.3	71.00
140206		1.0	4.69
140207		1.8	39.60
140208		1.3	0.19
140241		2.5	0.37
140242		1.0	32.90
140243		1.0	0.22
140110		0.6	2.20
140111		1.1	0.09



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Geochemical Lab Report

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PROJECT: SILVERTIP

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SAMPLE NUMBER	ELEMENT UNITS	Ge PPM	In PPM
140112		0.7	0.19
140212		1.4	54.50
140213		1.5	23.10
140213	DUPLICATE	0.9	22.80
140214		1.4	89.90
140215		0.9	0.13
140216		1.2	58.30
140217		1.9	25.20
140218		1.0	29.10
140219		0.8	22.40
140220		0.8	3.28
140221		0.9	6.65
140222		1.2	12.90
V97-17379	STD B	<.5	72.10



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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02716.0 (COMPLETE)

PROJECT: SILVERTIP

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SAMPLE NUMBER	ELEMENT UNITS	Ag30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	Ta
		PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM
140133		88	173.5	112.0	980	>10000	>10000	<1	9	<1	258.6	173	4923	1454	>10.00	237	31	2	93	2	80	152	<1	0.01	<.01	0.03	<.01	<.01	4	<1	29	<1	<1	<5	<10
140134		123	295.5	196.8	1405	>10000	>10000	<1	10	<1	311.4	212	4240	1541	>10.00	268	42	<1	87	3	195	187	2	0.02	<.01	0.29	<.01	<.01	9	<1	35	<1	<1	<5	<10
140135		77	99.0	70.1	1633	4805	>10000	1	8	<1	81.6	311	1374	227	>10.00	305	23	2	57	3	84	49	2	0.01	0.08	2.18	<.01	<.01	34	<1	7	<1	<1	<5	<10
140136		34	48.8	22.7	1686	358	660	<1	6	<1	3.4	264	679	137	>10.00	111	13	<1	80	2	<20	<20	<1	<.01	0.03	0.11	<.01	<.01	3	<1	<2	<1	<1	<5	<10
140137		36	50.0	29.1	2737	311	290	<1	6	<1	1.5	343	929	183	>10.00	130	12	<1	75	2	<20	<20	<1	<.01	0.04	0.07	<.01	<.01	4	<1	<2	<1	<1	<5	<10
140138		171	97.4	67.2	2150	4743	>10000	<1	12	<1	233.7	366	3094	229	>10.00	446	35	3	85	3	163	167	12	0.01	0.55	1.34	<.01	<.01	10	1	21	<1	<1	<5	<10
140139		<5	2.2	2.8	34	100	443	1	<1	<1	1.9	<5	31	<5	0.74	396	<10	43	<1	2	<20	<20	2	0.02	7.69	>10.00	<.01	<.01	116	1	<2	2	10	<5	<10
140140		39	22.4	20.4	96	5570	1899	1	4	<1	10.7	11	402	176	2.49	201	<10	60	<1	2	82	<20	3	<.01	0.22	>10.00	<.01	<.01	135	1	<2	<1	3	<5	<10
140141		6	2.2	1.6	27	144	245	19	85	7	1.0	<5	88	18	1.72	264	<10	63	81	49	<20	<20	5	0.36	0.55	1.16	<.01	0.13	22	4	<2	2	1	<5	<10
140142		15	5.2	6.0	5	1293	84	1	1	<1	0.3	<5	126	31	0.64	199	<10	239	<1	2	<20	<20	3	0.03	1.08	>10.00	<.01	<.01	257	1	<2	<1	5	<5	<10
140143		636	93.0	60.8	239	>10000	>10000	<1	<1	<1	118.5	<5	4955	1039	1.76	209	<10	68	<1	3	1374	45	7	0.02	0.36	>10.00	<.01	<.01	205	1	14	1	3	<5	<10
140144		21	1.0	2.6	<1	109	241	1	1	<1	1.0	<5	22	<5	0.05	119	<10	649	<1	3	<20	<20	1	0.03	0.48	>10.00	<.01	<.01	275	1	<2	<1	4	<5	<10
140145		18	8.8	7.0	67	901	3375	4	52	8	20.4	<5	203	12	2.36	1231	<10	45	100	24	<20	<20	5	0.42	0.77	2.01	<.01	0.15	64	8	<2	<1	<1	<5	<10
140146		<5	3.1	4.2	7	390	544	4	6	<1	2.8	<5	15	<5	0.49	417	<10	132	<1	10	<20	<20	2	0.02	0.39	>10.00	<.01	<.01	463	2	<2	<1	4	<5	<10
140147		266	528.2	>200.0	2561	9491	>10000	<1	4	<1	342.4	126	8303	>2000	>10.00	415	31	<1	34	4	1371	213	2	<.01	<.01	0.73	<.01	<.01	5	<1	46	<1	<1	<5	<10
140148		1500	423.9	>200.0	1879	>10000	>10000	<1	9	<1	261.8	16	>10000	>2000	>10.00	387	31	1	55	5	1264	129	19	<.01	<.01	1.10	<.01	<.01	13	3	32	<1	<1	<5	<10
140149		1836	339.0	>200.0	1903	>10000	>10000	<1	13	<1	341.2	20	>10000	1956	>10.00	489	26	2	61	5	1249	172	32	<.01	<.01	1.43	<.01	<.01	20	3	44	<1	<1	<5	<10
140150		<5	1.8	2.9	8	238	337	1	<1	<1	1.7	<5	52	12	0.28	451	<10	307	<1	2	<20	<20	2	0.02	7.44	>10.00	<.01	<.01	183	1	<2	3	9	<5	<10
140151		16	3.3	3.0	53	223	805	30	130	11	4.0	<5	147	20	2.39	302	<10	49	61	51	<20	<20	3	0.44	0.26	5.15	<.01	0.16	141	10	<2	2	1	<5	<10
140152		14	2.1	2.3	39	157	563	27	102	8	3.1	<5	91	16	1.70	173	<10	100	23	36	<20	<20	3	0.25	0.24	>10.00	<.01	0.10	411	12	<2	1	3	<5	<10
140153		10	2.0	2.5	30	117	520	21	59	4	3.1	<5	92	16	1.44	499	<10	96	17	30	<20	<20	5	0.17	1.19	>10.00	<.01	0.06	326	8	<2	1	3	<5	<10
140154		786	585.5	>200.0	1377	>10000	>10000	2	9	<1	492.7	<5	7093	1588	>10.00	631	31	5	56	4	658	300	50	0.02	<.01	1.12	<.01	<.01	7	3	40	<1	<1	<5	<10
140155		22	5.1	6.0	26	983	1068	2	11	1	6.6	<5	123	71	0.37	410	<10	60	<1	9	75	<20	5	0.02	0.22	>10.00	<.01	<.01	198	3	<2	<1	3	<5	<10
140156		283	141.6	94.2	549	>10000	>10000	7	28	<1	304.9	<5	2545	520	9.97	684	19	7	74	14	358	139	16	0.07	0.28	6.12	<.01	0.01	52	2	15	<1	<1	<5	<10
140157		13	2.9	4.2	19	263	919	3	4	<1	5.1	<5	63	12	0.42	245	<10	105	<1	6	<20	<20	2	0.02	0.18	>10.00	<.01	<.01	181	2	<2	<1	3	<5	<10
140158		16	30.5	26.2	161	3765	8328	2	58	8	39.2	11	162	36	4.11	350	<10	26	124	15	79	20	4	0.36	0.16	0.94	<.01	0.17	30	5	4	1	<1	<5	<10
140159		14	8.5	6.1	73	903	2548	2	50	4	12.7	<5	189	21	2.56	267	<10	28	166	17	21	<20	4	0.32	0.14	0.98	<.01	0.15	29	4	2	<1	<1	<5	<10
140160		377	40.4	31.7	169	7183	9582	<1	38	4	55.8	<5	1454	131	5.42	278	<10	14	133	12	64	27	3	0.27	0.09	1.15	<.01	0.12	68	7	5	1	<1	<5	<10
140161		164	10.7	8.1	65	1571	1362	1	41	7	6.4	<5	529	24	3.88	155	<10	23	191	15	<20	<20	3	0.27	0.05	0.53	<.01	0.14	37	3	<2	<1	<1	<5	<10
140162		24	81.3	67.5	310	>10000	>10000	<1	44	22	99.8	20	169	62	2.64	221	16	28	101	10	225	54	4	0.28	0.03	0.35	<.01	0.16	14	2	8	1	<1	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PPM
140133		<.01	5	3.64			8.32	155
140134		<.01	5	5.30			9.99	293
140135		<.01	5	0.78			2.13	124
140136		<.01	5	0.08			0.14	53
140137		<.01	6	0.06			0.05	38
140138		<.01	5	0.79			7.07	215
140139		<.01	<1	0.02			0.06	
140140		<.01	<1	0.76			0.30	
140141		<.01	7	0.02			0.03	
140142		<.01	<1	0.19			<0.01	
140143		<.01	<1	3.17			3.13	
140144		<.01	<1	0.02			0.03	
140145		<.01	11	0.11			0.44	
140146		<.01	<1	0.07			0.08	
140147		<.01	5	13.07			11.59	1368
140148		<.01	5	13.59			6.30	1235
140149		<.01	5	8.05			7.97	1286
140150		<.01	<1	0.04			0.04	<4
140151		<.01	14	0.03			0.11	17
140152		<.01	9	0.02			0.09	13
140153		<.01	6	0.02			0.07	18
140154		<.01	4	12.99			12.26	689
140155		<.01	<1	0.15			0.15	86
140156		<.01	3	2.43			5.46	490
140157		<.01	<1	0.04			0.13	
140158		<.01	16	0.43			0.93	
140159		<.01	15	0.12			0.33	
140160		<.01	13	1.01			1.28	
140161		<.01	9	0.21			0.17	
140162		<.01	7	1.66			2.48	



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140163		28	3.4	2.3	27	74	129	14	96	10	0.6	<5	50	13	5.63	170	<10	17	84	26	<20	<20	2	0.31	0.09	0.60	<.01	0.16	35	5	<2	2	<1	<5	<10
140164		68	15.9	11.9	411	1729	7724	4	53	5	40.4	<5	344	26	4.50	95	<10	19	162	20	277	<20	3	0.30	0.06	0.30	<.01	0.13	18	4	4	<1	<1	<5	<10
140165		11	1.5	2.8	3	46	141	2	2	<1	0.5	<5	56	<5	0.46	4896	<10	30	<1	4	<20	<20	5	<.01	0.11	>10.00	<.01	<.01	148	4	<2	<1	3	<5	<10
140166		11	3.2	4.0	6	200	377	3	<1	<1	1.5	<5	57	9	0.26	2480	<10	73	<1	2	<20	<20	3	<.01	0.60	>10.00	<.01	<.01	160	3	<2	<1	4	<5	<10
140167		55	7.6	6.5	69	1429	3405	3	31	5	19.2	<5	327	15	2.56	561	<10	29	156	9	43	<20	4	0.26	0.18	1.77	<.01	0.12	18	3	<2	<1	<1	<5	<10
140168		115	67.3	51.4	1383	>10000	>10000	2	36	6	284.4	<5	522	1715	3.22	326	18	17	144	8	985	142	4	0.24	0.02	0.15	<.01	0.11	9	2	32	<1	<1	<5	<10
140169		7	1.1	0.6	19	108	309	3	49	10	2.2	<5	72	11	1.77	124	<10	52	152	9	<20	<20	8	0.29	0.12	0.37	<.01	0.13	17	4	<2	<1	<1	<5	<10
140170		24	5.2	4.3	27	39	176	20	77	6	0.9	<5	47	17	1.41	620	<10	34	56	28	<20	<20	2	0.23	0.43	5.70	<.01	0.07	55	4	<2	<1	1	<5	<10
140171		30	10.9	7.6	29	509	550	26	71	3	3.0	<5	158	50	8.28	4159	<10	34	94	44	<20	<20	2	0.15	2.42	5.76	<.01	0.04	44	3	<2	<1	<1	<5	<10
140172		71	6.2	5.5	13	69	157	17	46	<1	0.9	<5	74	18	2.55	8546	<10	43	37	57	<20	<20	2	0.11	3.44	>10.00	<.01	0.02	74	3	<2	1	4	<5	<10
140173		6	<0.7	2.4	<1	15	48	2	2	<1	0.6	<5	7	<5	0.10	493	<10	649	<1	6	<20	<20	2	0.01	0.30	>10.00	<.01	<.01	181	2	<2	<1	3	<5	<10
140174		6	1.3	2.4	2	86	167	1	3	<1	0.7	<5	19	<5	0.36	1502	<10	50	4	3	<20	<20	2	0.02	2.24	>10.00	<.01	<.01	79	4	<2	1	4	<5	<10
140175		674	83.0	55.3	284	>10000	9668	3	9	<1	77.2	<5	2038	346	6.27	969	<10	27	66	5	231	28	4	0.03	2.23	>10.00	<.01	<.01	38	2	6	<1	1	<5	<10
140176		454	87.9	61.2	288	>10000	>10000	2	9	<1	140.3	<5	1595	181	5.73	989	12	23	56	5	231	52	5	0.03	2.49	>10.00	<.01	<.01	41	2	11	1	3	<5	<10
140177		1552	498.6	>200.0	2174	>10000	>10000	<1	6	<1	526.3	<5	5598	>2000	>10.00	1001	34	13	47	5	1686	275	26	0.03	1.02	4.57	<.01	<.01	18	2	78	<1	<1	<5	<10
140178		<5	1.8	3.3	5	322	340	1	<1	<1	1.5	<5	15	14	0.20	318	<10	75	<1	1	<20	<20	1	0.01	5.33	>10.00	<.01	<.01	140	1	<2	1	8	<5	<10
140179		1505	353.6	>200.0	1174	>10000	>10000	3	16	<1	590.6	<5	3839	626	>10.00	837	37	12	61	7	1046	223	7	0.05	0.68	3.69	<.01	0.02	15	1	40	<1	<1	<5	<10
140180		114	34.6	27.4	150	5350	7335	3	9	<1	52.8	<5	382	59	1.90	1236	<10	26	16	7	111	<20	3	0.04	3.74	>10.00	0.01	0.01	71	3	4	2	4	<5	<10
140181		16	3.8	4.8	20	437	1319	2	6	<1	7.3	<5	56	<5	0.48	1257	<10	26	7	5	<20	<20	3	0.03	2.05	>10.00	<.01	0.01	91	3	<2	<1	5	<5	<10
140182		<5	1.4	2.5	5	146	342	2	3	<1	1.5	<5	16	<5	0.26	1455	<10	20	4	3	<20	<20	2	0.02	2.72	>10.00	<.01	<.01	85	3	<2	1	6	<5	<10
140183		<5	1.0	2.5	<1	18	65	2	4	<1	<0.2	<5	39	<5	0.44	1595	<10	19	2	2	<20	<20	2	0.02	1.79	>10.00	<.01	<.01	79	4	<2	<1	5	<5	<10
140184		104	67.7	60.3	11	162	506	19	7	<1	0.9	<5	100	10	1.75	76	<10	907	96	29	<20	<20	17	0.27	0.02	0.08	<.01	0.11	6	<1	<2	1	<1	<5	<10
140185		40	8.2	7.6	7	132	439	1	6	<1	6.6	<5	24	6	0.30	593	<10	127	104	2	<20	<20	2	0.02	0.14	>10.00	<.01	<.01	67	3	<2	<1	2	<5	<10
140186		26	4.1	5.3	6	131	281	1	3	<1	5.0	<5	27	12	0.29	884	<10	100	10	2	<20	<20	3	0.02	0.38	>10.00	<.01	<.01	139	4	<2	<1	4	<5	<10
140187		10	<0.7	2.3	<1	11	195	<1	2	<1	2.2	<5	<5	<5	0.12	1451	<10	148	<1	3	<20	<20	2	0.01	1.18	>10.00	<.01	<.01	206	3	<2	<1	5	<5	<10
140188		<5	<0.7	2.3	<1	5	152	<1	3	<1	0.4	<5	7	<5	0.14	2246	<10	97	<1	2	<20	<20	2	<.01	0.74	>10.00	<.01	<.01	153	2	<2	<1	5	<5	<10
140189		1434	1.1	2.1	<1	16	2096	1	38	6	22.7	<5	24	22	0.88	3177	<10	28	23	2	<20	<20	3	<.01	0.18	>10.00	<.01	<.01	94	5	<2	<1	3	<5	<10
140190		8	<0.7	2.0	<1	14	1901	1	28	7	19.5	<5	17	21	0.65	3133	<10	28	12	2	<20	<20	3	<.01	0.25	>10.00	<.01	<.01	97	4	<2	<1	3	<5	<10
140191		7	<0.7	1.8	<1	14	1075	1	18	8	4.3	<5	16	<5	0.42	2396	<10	19	11	2	<20	<20	3	0.01	0.70	>10.00	<.01	<.01	103	4	<2	<1	3	<5	<10
140192		9	1.3	0.9	2	54	3077	<1	40	16	13.1	<5	28	<5	0.91	2850	<10	15	27	4	<20	<20	<1	0.02	1.28	>10.00	<.01	<.01	79	6	<2	<1	7	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PPM
140163		<.01	25	0.01			<0.01	
140164		<.01	11	0.23			0.92	
140165		<.01	<1	<0.01			<0.01	
140166		<.01	<1	0.03			0.06	
140167		<.01	8	0.18			0.43	
140168		<.01	9	1.87			6.70	
140169		<.01	10	0.01			0.02	
140170		<.01	9	<0.01			<0.01	
140171		<.01	6	0.08			0.08	
140172		<.01	4	0.01			0.02	
140173		<.01	<1	<0.01			<0.01	
140174		<.01	<1	0.01			0.01	
140175		<.01	1	1.94			1.99	367
140176		<.01	1	2.00			3.29	425
140177		<.01	3	11.35			11.62	1689
140178		<.01	<1	0.05			0.04	
140179		<.01	3	8.84			10.49	
140180		<.01	<1	0.81			1.37	
140181		<.01	<1	0.06			0.17	
140182		<.01	<1	0.02			0.04	
140183		<.01	<1	<0.01			<0.01	
140184		<.01	14	0.02			0.05	
140185		<.01	<1	0.02			0.06	
140186		<.01	<1	0.02			0.03	
140187		<.01	<1	<0.01			0.03	
140188		<.01	<1	<0.01			0.01	
140189		<.01	<1	<0.01			0.27	
140190		<.01	<1	<0.01			0.25	
140191		<.01	<1	<0.01			0.15	
140192		<.01	<1	0.01			0.45	



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140193		<5	<0.7	2.0	<1	3	28	1	<1	<1	<0.2	<5	<5	<5	0.13	223	<10	118	<1	1	<20	<20	1	0.02	3.76	>10.00	<.01	<.01	133	<1	<2	1	6	<5	<10
140194		<5	<0.7	2.2	<1	4	93	1	3	<1	0.3	<5	18	<5	0.10	504	<10	32	<1	2	<20	<20	2	<.01	0.72	>10.00	<.01	<.01	157	3	<2	<1	4	<5	<10
140195		21	12.3	9.4	66	1847	4909	13	71	8	25.9	<5	151	116	2.32	904	<10	58	169	27	48	<20	3	0.20	0.72	1.84	<.01	0.10	35	7	<2	<1	<1	<5	<10
140196		10	6.8	4.9	44	749	2159	11	64	6	11.2	<5	116	55	2.30	1450	<10	76	154	30	34	<20	3	0.19	1.51	5.08	<.01	0.09	137	9	<2	1	2	<5	<10
140197		17	6.0	4.7	33	716	655	11	53	5	3.2	<5	127	32	1.84	1097	<10	65	150	14	24	<20	3	0.18	0.74	3.67	<.01	0.08	66	8	<2	<1	1	<5	<10
140198		82	19.5	14.8	120	2270	3856	9	44	5	20.5	<5	684	173	3.98	1286	<10	25	130	11	93	<20	3	0.13	0.25	5.37	<.01	0.06	97	8	<2	<1	<1	<5	<10
140199		<5	<0.7	1.5	<1	12	35	1	<1	<1	<0.2	<5	<5	<5	0.16	262	<10	99	<1	2	<20	<20	1	0.02	4.73	>10.00	<.01	<.01	129	<1	<2	2	7	<5	<10
140200		<5	1.0	2.5	<1	49	34	4	5	<1	<0.2	<5	172	8	1.25	555	<10	29	<1	2	<20	<20	1	<.01	0.27	>10.00	<.01	<.01	109	2	<2	<1	3	<5	<10
140225		189	991.7	>200.0	1730	>10000	5542	15	80	3	39.0	<5	3494	>2000	9.97	75	23	79	22	14	>2000	31	15	1.60	<.01	0.21	<.01	0.03	21	40	43	<1	<1	<5	<10
140226		647	184.5	120.5	1312	>10000	>10000	5	26	8	316.5	<5	7249	442	>10.00	1193	25	<1	89	3	873	157	9	0.09	<.01	0.13	<.01	<.01	3	6	14	<1	<1	<5	<10
140227		661	1430.6	>200.0	3230	>10000	>10000	8	26	6	422.9	8	3424	1650	>10.00	1215	54	2	60	4	1627	232	7	0.01	0.39	0.75	<.01	<.01	5	3	36	<1	<1	<5	<10
140228		739	1450.2	>200.0	3478	>10000	>10000	12	27	9	495.7	7	3440	1577	>10.00	1341	73	8	53	5	1422	371	8	0.06	0.38	0.75	<.01	<.01	3	4	53	<1	1	<5	<10
140229		13	3.4	4.0	7	406	232	1	<1	<1	1.1	<5	6	<5	0.20	302	<10	83	<1	2	<20	<20	1	0.01	5.36	>10.00	<.01	<.01	157	1	<2	2	8	<5	<10
140230		23	12.2	12.1	44	2088	1865	1	6	3	15.1	<5	61	65	0.55	757	<10	58	<1	3	89	<20	3	<.01	0.26	>10.00	<.01	<.01	191	4	<2	<1	3	<5	<10
140231		21	58.1	46.9	35	>10000	2115	1	<1	<1	16.4	<5	47	57	0.22	5406	<10	23	<1	2	42	<20	4	<.01	0.19	>10.00	<.01	<.01	132	5	<2	<1	4	<5	<10
140232		116	819.2	>200.0	1380	>10000	>10000	11	8	<1	213.7	158	2839	688	>10.00	2735	40	2	64	3	945	119	8	0.01	0.05	6.80	<.01	<.01	29	3	17	<1	<1	<5	<10
140233		288	36.5	28.6	129	6173	8349	8	22	2	60.8	<5	1043	49	4.79	4750	<10	16	26	16	96	26	9	0.04	4.59	>10.00	<.01	0.01	58	5	3	<1	6	<5	<10
140234		245	55.7	38.9	168	8138	>10000	3	8	<1	87.2	<5	1450	52	3.92	3655	<10	28	9	6	123	38	9	0.01	3.18	>10.00	<.01	<.01	84	5	5	<1	4	<5	<10
140235		794	108.4	93.8	583	>10000	>10000	3	14	<1	377.9	<5	2233	444	5.04	1227	23	11	164	2	481	180	4	0.01	0.18	1.98	<.01	<.01	8	1	37	<1	<1	<5	<10
140236		1386	219.8	145.0	438	>10000	>10000	2	7	<1	282.8	<5	5194	420	>10.00	1594	21	5	52	2	373	134	4	<.01	0.03	4.66	<.01	<.01	11	2	21	<1	<1	<5	<10
140237		32	17.7	17.5	58	3400	2000	2	4	<1	11.5	<5	166	81	0.69	3217	<10	25	2	4	51	<20	5	0.01	1.25	>10.00	<.01	<.01	103	5	<2	<1	5	<5	<10
140238		77	15.9	14.4	67	2552	3320	2	5	<1	22.1	<5	280	37	1.37	1207	<10	83	5	4	51	<20	3	0.01	0.62	>10.00	<.01	<.01	175	3	<2	<1	3	<5	<10
140239		1023	185.0	140.2	623	>10000	>10000	5	12	<1	267.1	<5	3241	332	8.54	1409	21	33	26	4	402	110	6	0.02	0.52	>10.00	<.01	<.01	75	2	18	<1	<1	<5	<10
140240		27	8.9	9.0	22	1658	1200	4	9	1	6.5	<5	52	10	0.58	1272	<10	109	<1	2	<20	<20	2	<.01	0.39	>10.00	<.01	<.01	171	3	<2	<1	3	<5	<10



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02716.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 22-OCT-97 PAGE 3B(6/18)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PPM
140193		<.01	<1	<0.01			<0.01	
140194		<.01	<1	<0.01			<0.01	
140195		<.01	6	0.23			0.60	
140196		<.01	6	0.09			0.28	
140197		<.01	7	0.09			0.08	
140198		<.01	7	0.31			0.55	
140199		<.01	<1	<0.01			<0.01	
140200		<.01	<1	0.01			<0.01	
140225		<.01	4	>15.00	36.64	36.33	0.71	3452
140226		<.01	4	3.46			7.52	1144
140227		<.01	3	>15.00	27.92	28.39	10.73	1220
140228		<.01	<1	>15.00	26.21	26.23	12.86	1098
140229		<.01	<1	0.07			0.04	<4
140230		<.01	<1	0.28			0.29	
140231		<.01	<1	1.40			0.32	
140232		<.01	3	>15.00	19.37		4.99	
140233		<.01	2	0.87			1.59	
140234		<.01	<1	1.12			2.15	
140235		<.01	2	1.96			5.81	
140236		<.01	3	5.90			4.97	
140237		<.01	<1	0.42			0.27	
140238		<.01	<1	0.32			0.47	
140239		<.01	2	4.53			6.54	
140240		<.01	<1	0.22			0.19	



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PROJECT: SILVERTIP

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STANDARD NAME	ELEMENT UNITS	Al3O3 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
ANALYTICAL BLANK		<5	-	<0.2	<1	8	45	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	
ANALYTICAL BLANK		<5	-	0.3	1	9	53	<1	<1	<1	0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	
ANALYTICAL BLANK		<5	-	<0.2	<1	7	33	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<.01	<.01	<0.01	<.01	<.01	<1	<1	<2	<1	<1	<5	<10	
Number of Analyses		3	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Mean Value		3	-	0.2	0.7	8	44	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	5	
Standard Deviation		-	-	0.1	0.4	1	10	-	-	-	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	.01	1	1	0.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	
Gannet Standard	1030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	1030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC GEOCHEM STD 4	-	-	1.4	255	33	224	3	39	7	0.9	<5	32	<5	2.70	572	<10	56	69	8	<20	<20	4	0.85	1.10	1.31	0.06	0.14	37	3	<2	6	2	<5	<10		
Number of Analyses	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mean Value	-	-	1.4	255	33	224	3	39	7	0.9	3	32	3	2.70	572	5	56	69	8	10	10	4	0.85	1.10	1.31	0.06	0.14	37	3	1	6	2	3	5		
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Accepted Value	-	-	1.1	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	1		
Gannet Standard	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANMET CERTIFIED STD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



Intertek Testing Services

Bondar Clegg

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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-
ANALYTICAL BLANK		<.01	<1	-	-	-	-	-
Number of Analyses		3	3	-	-	-	-	-
Mean Value		.005	0.5	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		<.01	.01	<.0001	<.001	<.001	<.0001	.005

Gannet Standard		-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-

BCC GEOCHEM STD 4		<.01	11	-	-	-	-	-
Number of Analyses		1	1	-	-	-	-	-
Mean Value		.005	11	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		0.01	8	-	-	-	-	5

Gannet Standard		-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-

CANMET CERTIFIED STD		-	-	4.32	-	-	>15.00	-
Number of Analyses		-	-	1	-	-	1	-
Mean Value		-	-	4.32	-	-	15.00	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	4.33	4.32	4.33	19.02	-



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
FA SYNTHETIC STD		-	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Garnet Standard		183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 6		-	-	0.5	130	14	127	4	136	27	0.2	<5	140	<5	7.10	1462	<10	6	182	44	<20	<20	2	1.86	2.32	3.62	0.01	0.04	74	3	4	18	4	8	<10	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.5	130	14	127	4	136	27	0.2	3	140	3	7.10	1462	5	6	182	44	10	10	2	1.86	2.32	3.62	0.01	0.04	74	3	4	18	4	8	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	0.2	140	18	140	4	135	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-	24	2	6	1	
FA SYNTHETIC STD		-	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Sn PPM
FA SYNTHETIC STD		-	-	-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-
Gannet Standard		-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-
BCC GEOCHEM STD 6	<.01	7	-	-	-	-	-	-
Number of Analyses	1	1	-	-	-	-	-	-
Mean Value	.005	7	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	.003	5	-	-	-	-	-	5
FA SYNTHETIC STD		-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-
BCC Base Metal Ref.		-	-	5.62	-	-	11.73	-
Number of Analyses		-	-	1	-	-	1	-
Mean Value		-	-	5.62	-	-	11.73	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	5.66	5.66	5.66	11.88	-



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STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
CANMET SO-2 REF STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 5		-	-	0.3	80	19	114	1	35	12	0.4	<5	10	<5	4.48	723	<10	181	47	113	<20	<20	7	3.06	1.46	0.94	0.05	0.27	34	7	<2	22	4	10	<10	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.3	80	19	114	1	35	12	0.4	3	10	3	4.48	723	5	181	47	113	10	10	7	3.06	1.46	0.94	0.05	0.27	34	7	1	22	4	10	5	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18	1	
Fluorspar Granite		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



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STANDARD NAME	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Sn PPM
CANMET SO-2 REF STD	-	-	-	-	-	-	-	<4
Number of Analyses	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	2
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	2
BCC Base Metal Ref.	-	-	8.19	-	-	-	-	-
Number of Analyses	-	-	1	-	-	-	-	-
Mean Value	-	-	8.19	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	-	8.28	8.28	8.28	3.04	-	-
BCC GEOCHEM STD 5	0.19	12	-	-	-	-	-	-
Number of Analyses	1	1	-	-	-	-	-	-
Mean Value	0.19	12	-	-	-	-	-	-
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	9	-	-	-	-	-	-
Fluorspar Granite	-	-	-	-	-	-	-	5
Number of Analyses	-	-	-	-	-	-	-	1
Mean Value	-	-	-	-	-	-	-	5
Standard Deviation	-	-	-	-	-	-	-	-
Accepted Value	-	-	-	-	-	-	-	3



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag Grav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140133 Duplicate		88	173.5	112.0	980	>10000	>10000	<1	9	<1	258.6	173	4923	1454	>10.00	237	31	2	93	2	80	152	<1	0.01	<.01	0.03	<.01	<.01	4	<1	29	<1	<1	<5	<10
140138 Duplicate		171	97.4 100.3	67.2	2150	4743	>10000	<1	12	<1	233.7	366	3094	229	>10.00	446	35	3	85	3	163	167	12	0.01	0.55	1.34	<.01	<.01	10	1	21	<1	<1	<5	<10
140139 Duplicate		<5	2.2	2.8	34	100	443	1	<1	<1	1.9	<5	31	<5	0.74	396	<10	43	<1	2	<20	<20	2	0.02	7.69	>10.00	<.01	<.01	116	1	<2	2	10	<5	<10
		6		2.8	28	112	493	1	<1	<1	2.0	<5	31	6	0.65	369	<10	41	<1	2	<20	<20	1	0.02	7.42	>10.00	<.01	<.01	98	<1	<2	2	10	<5	<10
140142 Duplicate		15	5.2	6.0	5	1293	84	1	1	<1	0.3	<5	126	31	0.64	199	<10	239	<1	2	<20	<20	3	0.03	1.08	>10.00	<.01	<.01	257	1	<2	<1	5	<5	<10
140145 Prep Duplicate		18	8.8	7.0	67	901	3375	4	52	8	20.4	<5	203	12	2.36	1231	<10	45	100	24	<20	<20	5	0.42	0.77	2.01	<.01	0.15	64	8	<2	<1	<1	<5	<10
		26	8.6	6.9	68	907	3531	4	49	8	20.2	<5	201	12	2.54	1325	<10	39	106	23	<20	<20	5	0.43	0.83	2.09	<.01	0.16	65	8	2	<1	<1	<5	<10
140147 Duplicate		266	528.2	>200.0	2561	9491	>10000	<1	4	<1	342.4	126	8303	>2000	>10.00	415	31	<1	34	4	1371	213	2	<.01	<.01	0.73	<.01	<.01	5	<1	46	<1	<1	<5	<10
140151 Duplicate		16	3.3 3.2	3.0	53	223	805	30	130	11	4.0	<5	147	20	2.39	302	<10	49	61	51	<20	<20	3	0.44	0.26	5.15	<.01	0.16	141	10	<2	2	1	<5	<10
140152 Duplicate		14	2.1	2.3	39	157	563	27	102	8	3.1	<5	91	16	1.70	173	<10	100	23	36	<20	<20	3	0.25	0.24	>10.00	<.01	0.10	411	12	<2	1	3	<5	<10
140156 Duplicate		283	141.6	94.2	549	>10000	>10000	7	28	<1	304.9	<5	2545	520	9.97	684	19	7	74	14	358	139	16	0.07	0.28	6.12	<.01	0.01	52	2	15	<1	<1	<5	<10
				96.9	586	>10000	>10000	7	28	<1	304.7	<5	2610	536	>10.00	707	22	10	77	15	362	131	18	0.07	0.29	6.07	<.01	0.01	57	2	16	<1	<1	<5	<10
140157 Duplicate		13	2.9	4.2	19	263	919	3	4	<1	5.1	<5	63	12	0.42	245	<10	105	<1	6	<20	<20	2	0.02	0.18	>10.00	<.01	<.01	181	2	<2	<1	3	<5	<10
140161 Duplicate		164	10.7 11.3	8.1	65	1571	1362	1	41	7	6.4	<5	529	24	3.88	155	<10	23	191	15	<20	<20	3	0.27	0.05	0.53	<.01	0.14	37	3	<2	<1	<1	<5	<10
140162 Duplicate		24	81.3	67.5	310	>10000	>10000	<1	44	22	99.8	20	169	62	2.64	221	16	28	101	10	225	54	4	0.28	0.03	0.35	<.01	0.16	14	2	8	1	<1	<5	<10



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SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PPM
140133		<.01	5	3.64			8.32	155
Duplicate				3.59			8.16	
140138		<.01	5	0.79			7.07	215
Duplicate								
140139		<.01	<1	0.02			0.06	
Duplicate		<.01	<1					
140142		<.01	<1	0.19			<0.01	
Duplicate				0.19			<0.01	
140145		<.01	11	0.11			0.44	
Prep Duplicate		<.01	10	0.11			0.45	
140147		<.01	5	13.07			11.59	1368
Duplicate				13.04			11.84	1366
140151		<.01	14	0.03			0.11	17
Duplicate								
140152		<.01	9	0.02			0.09	13
Duplicate				0.03			0.08	
140156		<.01	3	2.43			5.46	490
Duplicate		<.01	3					
140157		<.01	<1	0.04			0.13	
Duplicate				0.04			0.14	
140161		<.01	9	0.21			0.17	
Duplicate								
140162		<.01	7	1.66			2.48	
Duplicate				1.65			2.51	



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SAMPLE NUMBER	ELEMENT UNITS	Al30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM
140166 Duplicate		11	3.2	4.0	6	200	377	3	<1	<1	1.5	<5	57	9	0.26	2480	<10	73	<1	2	<20	<20	3	<.01	0.60	>10.00	<.01	<.01	160	3	<2	<1	4	<5	<10
140172 Duplicate		71	6.2 5.9	5.5	13	69	157	17	46	<1	0.9	<5	74	18	2.55	8546	<10	43	37	57	<20	<20	2	0.11	3.44	>10.00	<.01	0.02	74	3	<2	1	4	<5	<10
140174 Duplicate		6	1.3	2.4	2	86	167	1	3	<1	0.7	<5	19	<5	0.36	1502	<10	50	4	3	<20	<20	2	0.02	2.24	>10.00	<.01	<.01	79	4	<2	1	4	<5	<10
140175 Duplicate		674	83.0	55.3	284	>10000	9668	3	9	<1	77.2	<5	2038	346	6.27	969	<10	27	65	5	231	28	4	0.03	2.23	>10.00	<.01	<.01	38	2	6	<1	1	<5	<10
				49.2	246	>10000	>10000	2	8	<1	69.7	<5	1833	307	5.20	868	<10	24	50	4	208	28	3	0.02	1.98	9.80	<.01	<.01	32	2	4	<1	2	<5	<10
140179 Duplicate		1505	353.6	>200.0	1174	>10000	>10000	3	16	<1	590.6	<5	3839	626	>10.00	837	37	12	61	7	1046	223	7	0.05	0.68	3.69	<.01	0.02	15	1	40	<1	<1	<5	<10
140183 Duplicate		<5	1.0 <0.7	2.5	<1	18	65	2	4	<1	<0.2	<5	39	<5	0.44	1595	<10	19	2	2	<20	<20	2	0.02	1.79	>10.00	<.01	<.01	79	4	<2	<1	5	<5	<10
140184 Duplicate		104	67.7 86	60.3	11	162	506	19	7	<1	0.9	<5	100	10	1.75	76	<10	907	96	29	<20	<20	17	0.27	0.02	0.08	<.01	0.11	6	<1	<2	1	<1	<5	<10
140189 Duplicate		1434	1.1	2.1	<1	16	2096	1	38	6	22.7	<5	24	22	0.88	3177	<10	28	23	2	<20	<20	3	<.01	0.18	>10.00	<.01	<.01	94	5	<2	<1	3	<5	<10
140192 Duplicate		9	1.3	0.9	2	54	3077	<1	40	16	13.1	<5	28	<5	0.91	2850	<10	15	27	4	<20	<20	<1	0.02	1.28	>10.00	<.01	<.01	79	6	<2	<1	7	<5	<10
				1.0	2	56	3068	<1	39	16	13.0	<5	29	5	0.90	2842	<10	15	28	4	<20	<20	<1	0.02	1.27	>10.00	<.01	<.01	78	6	<2	<1	6	<5	<10
140194 Duplicate		<5	<0.7	2.2	<1	4	93	1	3	<1	0.3	<5	18	<5	0.10	504	<10	32	<1	2	<20	<20	2	<.01	0.72	>10.00	<.01	<.01	157	3	<2	<1	4	<5	<10
140195 Duplicate		21	12.3 12.5	9.4	66	1847	4909	13	71	8	25.9	<5	151	116	2.32	904	<10	58	169	27	48	<20	3	0.20	0.72	1.84	<.01	0.10	35	7	<2	<1	<1	<5	<10
140198 Duplicate		82	19.5	14.8	120	2270	3856	9	44	5	20.5	<5	684	173	3.98	1286	<10	25	130	11	93	<20	3	0.13	0.25	5.37	<.01	0.06	97	8	<2	<1	<1	<5	<10



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02716.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97

DATE PRINTED: 22-OCT-97 PAGE 88(16/18)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ti	Zr	Pb	Pb	Pb	Zn	Sn
		PCT	PPM	PCT	PCT	PCT	PCT	PPM
140166		<.01	<1	0.03			0.06	
Duplicate				0.03			0.06	
140172		<.01	4	0.01			0.02	
Duplicate								
140174		<.01	<1	0.01			0.01	
Duplicate				0.01			0.01	
140175		<.01	1	1.94			1.99	367
Duplicate		<.01	1					
140179		<.01	3	8.84			10.49	
Duplicate				8.70			10.47	
140183		<.01	<1	<0.01			<0.01	
Duplicate								
140184		<.01	14	0.02			0.05	
Duplicate				0.02			0.06	
140189		<.01	<1	<0.01			0.27	
Duplicate				<0.01			0.28	
140192		<.01	<1	0.01			0.45	
Duplicate		<.01	<1					
140194		<.01	<1	<0.01			<0.01	
Duplicate				<0.01			0.01	
140195		<.01	6	0.23			0.60	
Duplicate								
140198		<.01	7	0.31			0.55	
Duplicate				0.30			0.52	



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02716.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 22-OCT-97 PAGE 9A(17/18)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PP8	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	
140228		739	1450.2	>200.0	3478	>10000	>10000	12	27	9	495.7	7	3440	1577	>10.00	1341	73	8	53	5	1422	371	8	0.06	0.38	0.75	<.01	<.01	3	4	53	<1	1	<5	<10	
Prep Duplicate		715	1270.3	>200.0	3934	>10000	>10000	12	29	9	556.0	8	3487	1826	>10.00	1481	72	8	53	5	1511	360	9	0.06	0.42	0.83	<.01	<.01	4	4	59	<1	1	<5	<10	
140229		13	3.4	4.0	7	406	232	1	<1	<1	1.1	<5	6	<5	0.20	302	<10	83	<1	2	<20	<20	1	0.01	5.36	>10.00	<.01	<.01	157	1	<2	2	8	<5	<10	
Duplicate																																				
140230		23	12.2	12.1	44	2088	1865	1	6	3	15.1	<5	61	65	0.55	757	<10	58	<1	3	89	<20	3	<.01	0.26	>10.00	<.01	<.01	191	4	<2	<1	3	<5	<10	
Duplicate			12.1																																	
140231		21	58.1	46.9	35	>10000	2115	1	<1	<1	16.4	<5	47	57	0.22	5406	<10	23	<1	2	42	<20	4	<.01	0.19	>10.00	<.01	<.01	132	5	<2	<1	4	<5	<10	
Duplicate		21																																		
140235		794	108.4	93.8	583	>10000	>10000	3	14	<1	377.9	<5	2233	444	5.04	1227	23	11	164	2	481	180	4	0.01	0.18	1.98	<.01	<.01	8	1	37	<1	<1	<5	<10	
Prep Duplicate		745	106.9	89.8	573	>10000	>10000	3	13	<1	362.5	<5	2152	395	5.15	1162	17	11	161	2	452	159	5	0.01	0.17	1.79	<.01	<.01	7	<1	34	<1	<1	<5	<10	
Duplicate				87.3	540	>10000	>10000	2	13	1	348.3	<5	2033	391	4.77	1122	18	10	156	2	433	158	4	0.01	0.17	1.76	<.01	<.01	7	<1	33	<1	<1	<5	<10	
140240		27	8.9	9.0	22	1658	1200	4	9	1	6.5	<5	52	10	0.58	1272	<10	109	<1	2	<20	<20	2	<.01	0.39	>10.00	<.01	<.01	171	3	<2	<1	3	<5	<10	
Duplicate																																				
Prep Duplicate		745	106.9	89.8	573	>10000	>10000	3	13	<1	362.5	<5	2152	395	5.15	1162	17	11	161	2	452	159	5	0.01	0.17	1.79	<.01	<.01	7	<1	34	<1	<1	<5	<10	
Duplicate			107.7																																	



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02716.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 22-OCT-97 PAGE 98(18/18)

SAMPLE NUMBER	ELEMENT UNITS	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Sn PPM
140228		<.01	<1	>15.00	26.21	26.23	12.86	1098
Prep Duplicate		<.01	<1	>15.00	26.42		13.25	1043
140229		<.01	<1	0.07			0.04	<4
Duplicate								8
140230		<.01	<1	0.28			0.29	
Duplicate								
140231		<.01	<1	1.40			0.32	
Duplicate				1.37			0.31	
140235		<.01	2	1.96			5.81	
Prep Duplicate		<.01	1	1.95			5.65	
Duplicate		<.01	1	1.98			5.88	
140240		<.01	<1	0.22			0.19	
Duplicate				0.23			0.17	
Prep Duplicate		<.01	1	1.95			5.65	
Duplicate								



Intertek Testing Services
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**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02716.1 (COMPLETE)

DATE RECEIVED: 06-OCT-97

PROJECT: SILVERTIP
DATE PRINTED: 4-DEC-97

PAGE 1 OF 1

SAMPLE NUMBER	ELEMENT UNITS	In PPM	Ge PPM
D2 140225		99.70	3.1
D2 140225	DUPLICATE	88.40	5.5
D2 140226		23.60	4.1
D2 140227		182.00	2.2
D2 140228		197.00	2.2
D2 140229		1.13	1.9
D2 140133		55.60	2.2
D2 140134		70.60	1.0
D2 140135		17.30	1.6
D2 140136		1.35	2.1
D2 140137		1.13	2.3
D2 140138		53.00	2.2
D2 140138	DUPLICATE	42.90	2.7
D2 140175		1.87	2.0
D2 140176		2.22	2.1
D2 140177		30.60	2.1
D2 140147		97.80	3.2
D2 140148		15.80	9.5
D2 140149		17.70	7.3
D2 140150		<0.01	<0.5
D2 140151		0.29	1.8
D2 140152		0.19	1.2
D2 140153		0.41	1.7
D2 140154		6.79	5.4
D2 140155		0.16	<0.5
D2 140156		2.36	1.8

Bondar-Clegg & Company Ltd.

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Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 1A(1/22)

SAMPLE NUMBER	ELEMENT UNITS	Al3O3 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
140981		78	103.0	93.4	588	4150	>10000	1	39	6	570.6	563	2383	155	>10.00	581	57	10	130	6	77	144	<1	0.16	<.01	0.02	<.01	0.06	3	<1	40	<1	<1	<5
140245		40	32.8	27.8	231	7433	4915	14	25	3	28.6	<5	979	115	6.59	310	<10	194	67	26	83	<20	1	0.19	0.09	4.89	<.01	0.06	31	2	6	<1	2	<5
140246		191	1382.7	>200.0	683	>10000	2903	10	14	<1	32.3	5	1496	983	5.92	25	27	25	127	45	1483	<20	8	0.34	0.02	0.07	<.01	0.11	14	<1	13	<1	<5	
140247		<5	<0.7	1.1	10	235	3551	3	7	1	20.1	<5	13	8	0.28	577	<10	101	<1	3	<20	<20	<1	0.01	0.23	>10.00	<.01	<.01	179	2	<2	<1	10	<5
140248		13	12.3	11.4	1442	2547	>10000	12	51	6	132.7	<5	1547	483	>10.00	452	21	166	28	16	<20	<20	6	0.17	0.04	2.06	<.01	0.03	12	6	8	1	2	<5
140249		<5	<0.7	0.4	54	104	9019	3	12	3	62.5	<5	24	19	0.94	674	<10	113	<1	3	<20	<20	<1	0.01	0.47	>10.00	<.01	<.01	181	4	<2	<1	9	<5
140250		38	7.7	5.3	3857	1178	>10000	14	83	34	1142.0	<5	443	122	8.63	4008	54	106	41	14	<20	170	33	0.16	0.40	1.59	<.01	0.02	15	19	5	<1	1	<5
140251		<5	<0.7	0.3	11	24	284	<1	<1	<1	2.0	<5	<5	<5	0.21	405	<10	90	4	1	<20	<20	<1	0.02	9.07	>10.00	0.01	<.01	136	1	<2	3	7	<5
140252		<5	<0.7	0.3	44	24	6289	2	9	3	34.4	<5	6	6	0.49	586	<10	39	<1	2	<20	<20	<1	0.01	0.44	>10.00	<.01	<.01	150	4	<2	<1	10	<5
140253		<5	<0.7	0.3	5	15	76	<1	3	<1	0.5	<5	18	<5	0.93	177	<10	41	2	1	<20	<20	<1	0.02	0.56	>10.00	<.01	<.01	269	2	<2	<1	10	<5
140254		12	<0.7	0.4	21	76	43	<1	13	1	0.2	<5	44	9	>10.00	145	<10	37	4	3	<20	<20	<1	0.05	0.56	>10.00	<.01	<.01	183	1	3	<1	5	<5
140255		<5	<0.7	0.3	2	21	34	<1	3	<1	<0.2	<5	8	<5	1.11	148	<10	29	3	2	<20	<20	<1	0.02	0.64	>10.00	<.01	<.01	188	1	<2	<1	9	<5
140256		26	7.3	6.4	24	841	1615	19	67	8	4.8	<5	105	79	1.98	557	<10	70	70	15	45	<20	2	0.24	0.16	0.51	<.01	0.11	6	3	<2	<1	<1	<5
140257		49	55.1	55.3	60	5945	3068	34	128	12	14.9	<5	325	1462	2.60	606	<10	33	70	35	309	<20	4	0.27	0.02	0.43	<.01	0.12	10	4	3	<1	<1	<5
140258		120	50.5	44.1	191	4130	4315	12	38	3	21.8	12	896	723	5.69	114	<10	18	184	9	149	<20	2	0.12	<.01	0.13	<.01	0.04	4	1	4	<1	<1	<5
140259		324	103.8	73.1	130	>10000	2950	5	29	2	4.4	48	3515	400	>10.00	352	12	30	137	13	289	<20	5	0.11	<.01	1.15	<.01	0.17	15	4	14	<1	1	<5
140260		13	1.2	1.1	18	218	3859	1	27	2	43.0	<5	49	38	0.72	2319	<10	36	2	2	<20	<20	<1	0.05	0.15	>10.00	<.01	<.01	191	7	<2	<1	10	<5
140261		7	7.1	5.3	153	697	>10000	1	22	2	98.9	<5	568	160	5.55	1776	15	32	4	10	<20	20	<1	0.09	7.52	>10.00	<.01	<.01	81	10	<2	<1	5	<5
140262		<5	<0.7	0.4	3	32	4865	<1	7	<1	11.3	<5	25	12	0.52	382	<10	45	<1	3	<20	<20	<1	0.01	0.31	>10.00	<.01	<.01	114	5	<2	<1	9	<5
140263		10	1.9	2.0	43	61	2880	<1	9	2	8.7	<5	185	5	2.34	954	<10	4	13	1	25	<20	7	0.02	0.27	>10.00	<.01	<.01	110	4	<2	<1	9	<5
140264		17	1.9	1.6	20	173	88	<1	2	<1	0.4	<5	153	15	2.20	680	<10	5	16	1	<20	<20	<1	0.02	0.31	>10.00	<.01	<.01	131	4	<2	<1	9	<5
140265		32	3.3	2.0	29	339	111	<1	2	<1	0.5	<5	257	34	3.29	717	<10	4	31	<1	<20	<20	4	0.02	0.26	>10.00	<.01	<.01	131	4	<2	<1	8	<5
140266		56	30.9	20.1	249	6858	599	<1	4	<1	3.3	38	808	441	>10.00	462	<10	5	33	2	156	<20	<1	0.04	0.21	>10.00	<.01	<.01	84	2	3	<1	6	<5
140267		20	20.0	13.9	27	6029	50	1	4	<1	0.6	36	730	632	8.99	365	<10	7	40	2	<20	<20	<1	0.04	0.25	>10.00	<.01	<.01	82	2	2	<1	5	<5
140268		15	17.2	20.9	52	9765	38	<1	1	<1	0.5	23	720	1188	3.86	449	<10	6	16	1	25	<20	<1	0.03	0.41	>10.00	<.01	<.01	156	2	<2	<1	9	<5
140269		20	78.9	57.8	239	>10000	151	<1	1	<1	2.6	46	646	518	4.07	326	<10	6	13	1	163	<20	<1	0.02	0.49	>10.00	<.01	<.01	123	2	<2	<1	9	<5
140270		38	500.1	>200.0	2404	>10000	9852	<1	3	<1	66.1	325	2714	>2000	>10.00	372	18	6	75	2	1896	<20	<1	0.06	0.06	4.95	<.01	<.01	21	1	12	<1	3	<5
140271		<5	1.2	0.9	6	192	73	<1	<1	<1	0.4	<5	6	11	0.15	347	<10	49	4	1	<20	<20	<1	0.02	7.12	>10.00	<.01	<.01	111	1	<2	2	6	<5
140272		15	99.8	54.2	249	>10000	4750	<1	2	<1	21.4	10	333	456	1.88	428	<10	5	11	<1	147	<20	<1	0.02	0.28	>10.00	<.01	<.01	110	2	4	<1	7	<5
140273		16	218.4	127.9	580	>10000	4857	<1	<1	<1	25.3	<5	866	1328	2.86	405	<10	5	13	<1	404	<20	<1	0.02	0.23	>10.00	<.01	<.01	108	2	4	<1	8	<5



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97

DATE PRINTED: 23-OCT-97

PROJECT: SILVERTIP
PAGE 18(2/22)

SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140981	<10	<.01	1	0.41				>15.00	17.24	
140245	<10	<.01	4	0.75				0.66		
140246	<10	<.01	3	>15.00	>40.00	40.65	0.33			850
140247	<10	<.01	<1	0.02				0.56		
140248	<10	<.01	2	0.24				4.10		
140249	<10	<.01	<1	0.01				1.71		
140250	<10	<.01	2	0.13				>15.00	25.24	
140251	<10	<.01	<1	<0.01				0.04		
140252	<10	<.01	<1	<0.01				1.07		
140253	<10	<.01	<1	<0.01				<0.01		
140254	<10	<.01	<1	0.01				<0.01		
140255	<10	<.01	<1	<0.01				0.01		
140256	<10	<.01	8	0.09				0.20		
140257	<10	<.01	12	0.57				0.40		
140258	<10	<.01	3	0.41				0.54		155
140259	<10	<.01	2	1.14				0.46		
140260	<10	<.01	<1	0.03				0.66		
140261	<10	<.01	<1	0.08				3.70		
140262	<10	<.01	<1	<0.01				0.87		
140263	<10	<.01	<1	0.01				0.50		
140264	<10	<.01	<1	0.03				<0.01		
140265	<10	<.01	<1	0.04				<0.01		
140266	<10	<.01	<1	0.69				0.10		
140267	<10	<.01	<1	0.63				0.01		42
140268	<10	<.01	<1	1.17				0.01		68
140269	<10	<.01	<1	2.04				0.04		237
140270	<10	<.01	<1	10.68				1.66		2105
140271	<10	<.01	<1	0.03				<0.01		<4
140272	<10	<.01	<1	2.34				1.30		422
140273	<10	<.01	<1	5.53				0.98		784



Intertek Testing Services

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Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 2A(3/22)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Al30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
140274		<5	16.0	11.4	23	3930	188	<1	1	<1	1.0	<5	52	53	0.28	297	<10	334	2	<1	<20	<20	<1	0.01	0.22	>10.00	<.01	<.01	140	1	<2	<1	9	<5
140275		9	<0.7	0.4	1	52	33	<1	1	<1	<0.2	<5	12	<5	0.31	242	<10	214	1	1	<20	<20	<1	0.01	0.30	>10.00	<.01	<.01	143	2	<2	<1	9	<5
140276		11	0.8	0.5	2	803	653	<1	2	<1	2.6	<5	28	6	>10.00	219	<10	14	16	3	<20	<20	<1	0.05	0.10	>10.00	<.01	<.01	107	3	4	<1	5	<5
140277		8	<0.7	0.4	<1	85	63	<1	2	<1	0.2	<5	7	<5	2.90	228	<10	45	3	2	<20	<20	<1	0.02	0.21	>10.00	<.01	<.01	111	3	<2	<1	9	<5
140278		16	<0.7	0.5	2	43	22	3	12	<1	<0.2	<5	14	<5	0.68	708	<10	84	6	13	<20	<20	<1	0.05	0.54	>10.00	<.01	0.01	140	3	<2	<1	9	<5
140279		11	<0.7	0.8	3	56	2	<1	58	<1	<0.2	<5	69	18	>10.00	1134	<10	8	13	9	<20	<20	<1	0.07	0.47	6.59	<.01	<.01	59	2	4	<1	4	<5
140280		5	<0.7	0.4	<1	21	3	<1	2	<1	<0.2	<5	9	<5	0.10	1799	<10	23	1	4	<20	<20	<1	0.01	0.14	>10.00	<.01	<.01	118	6	<2	<1	9	<5
140281		<5	<0.7	0.3	<1	25	<1	3	6	<1	<0.2	<5	6	<5	1.56	490	<10	95	2	2	<20	<20	<1	0.01	7.66	>10.00	<.01	<.01	161	2	<2	2	6	<5
140282		26	3.0	1.9	8	158	<1	3	67	<1	<0.2	<5	28	15	>10.00	339	<10	17	7	5	<20	<20	<1	0.05	5.59	6.79	<.01	<.01	138	1	<2	2	4	<5
140283		<5	<0.7	0.3	<1	14	97	<1	<1	<1	0.4	<5	<5	<5	0.13	301	<10	159	2	<1	<20	<20	<1	0.01	5.62	>10.00	<.01	<.01	139	1	<2	2	7	<5
140284		<5	<0.7	0.3	1	20	32	3	5	<1	<0.2	<5	13	<5	1.19	589	<10	92	2	2	<20	<20	<1	0.01	8.64	>10.00	<.01	<.01	160	3	<2	2	6	<5
140285		<5	<0.7	0.3	<1	25	5	1	3	<1	<0.2	<5	<5	<5	0.82	546	<10	82	<1	1	<20	<20	<1	<.01	1.44	>10.00	<.01	<.01	162	3	<2	<1	9	<5
140286		<5	<0.7	0.3	<1	24	8	2	6	<1	<0.2	<5	10	<5	1.65	430	<10	68	<1	2	<20	<20	<1	0.01	1.84	>10.00	<.01	<.01	189	4	<2	<1	9	<5
140287		<5	<0.7	0.4	2	31	17	3	7	<1	<0.2	<5	11	<5	2.09	452	<10	55	1	2	<20	<20	<1	0.01	2.01	>10.00	<.01	<.01	193	3	<2	<1	10	<5
140288		68	42.2	39.7	14	3191	303	16	11	1	2.4	29	412	412	1.67	158	<10	1057	251	7	137	<20	5	0.08	<.01	0.13	<.01	0.03	12	2	<2	<1	<1	<5
140289		267	147.8	126.9	63	>10000	1646	20	24	10	11.7	403	1678	866	8.65	1508	11	328	187	12	296	<20	5	0.14	<.01	0.09	<.01	0.03	16	3	5	<1	<1	<5
140290		165	63.6	48.5	265	7863	4540	32	58	9	53.2	81	3902	440	>10.00	855	14	95	64	28	74	<20	6	0.48	<.01	0.06	<.01	0.02	3	18	14	<1	<1	<5
140291		149	68.5	53.8	293	9330	4956	38	55	9	76.6	103	4746	383	>10.00	764	16	72	84	45	111	<20	8	0.63	<.01	0.08	<.01	0.02	4	30	15	<1	1	<5
140292		<5	<0.7	0.6	1	52	332	<1	2	<1	4.6	<5	19	<5	0.09	366	<10	19	6	<1	<20	<20	<1	0.01	0.76	>10.00	<.01	<.01	179	2	<2	<1	9	<5
140293		<5	<0.7	0.8	2	29	4365	<1	17	2	31.0	<5	10	5	0.67	601	<10	13	1	1	<20	<20	<1	0.03	0.22	>10.00	<.01	<.01	178	4	<2	<1	9	<5
140294		23	1.9	1.4	75	42	5532	<1	24	6	28.5	<5	551	6	>10.00	1310	12	7	49	2	32	<20	2	0.07	0.16	>10.00	<.01	<.01	70	4	3	<1	5	<5
140295		<5	<0.7	0.4	9	16	2394	<1	8	1	16.2	<5	6	<5	0.24	807	<10	6	3	2	<20	<20	<1	0.01	0.79	>10.00	<.01	<.01	160	2	<2	<1	9	<5
140296		8	<0.7	0.6	159	49	>10000	<1	80	15	161.3	<5	160	21	5.46	2103	18	29	18	2	<20	<20	4	0.06	0.21	>10.00	<.01	<.01	151	10	<2	<1	7	<5
140297		<5	<0.7	0.3	<1	18	200	<1	1	<1	1.0	<5	<5	<5	0.08	282	<10	161	2	1	<20	<20	<1	0.02	5.01	>10.00	<.01	<.01	161	<1	<2	1	8	<5
140298		<5	<0.7	0.3	6	14	4288	<1	21	4	19.8	<5	5	<5	0.65	697	<10	546	3	1	<20	<20	<1	0.03	0.78	>10.00	<.01	<.01	169	3	<2	<1	9	<5
140299		<5	13.0	10.5	137	395	>10000	<1	420	242	258.2	<5	74	65	8.39	15428	24	98	2	7	<20	24	3	0.35	0.14	>10.00	<.01	0.03	61	47	<2	1	6	<5
140300		<5	6.5	4.3	40	65	3472	<1	42	24	20.8	<5	51	27	2.84	2883	<10	78	4	7	<20	<20	<1	0.07	0.51	>10.00	<.01	0.02	113	7	<2	<1	8	<5
140301		<5	2.9	1.1	42	32	264	35	132	14	1.1	<5	160	15	2.34	508	<10	63	49	48	<20	<20	<1	0.39	0.19	9.88	<.01	0.17	155	8	<2	1	4	<5
140302		<5	1.0	0.9	14	25	696	12	50	7	1.6	<5	52	10	1.64	1353	<10	157	15	33	<20	<20	<1	0.15	0.41	>10.00	<.01	0.05	245	4	<2	<1	7	<5
140303		8	2.7	1.9	35	87	1544	15	63	9	4.2	<5	97	11	4.76	791	<10	33	76	28	<20	<20	<1	0.25	0.42	9.43	<.01	0.09	54	4	<2	2	4	<5



Intertek Testing Services

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Geochemical Lab Report

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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140274		<10	<.01	<1	0.39			0.04		
140275		<10	<.01	<1	<0.01			<0.01		
140276		<10	<.01	<1	0.09			0.09		
140277		<10	<.01	<1	0.01			<0.01		
140278		<10	<.01	<1	<0.01			<0.01		
140279		<10	<.01	<1	0.01			<0.01		
140280		<10	<.01	<1	<0.01			<0.01		
140281		<10	<.01	<1	<0.01			<0.01		
140282		<10	<.01	<1	0.02			<0.01		
140283		<10	<.01	<1	<0.01			<0.01		
140284		<10	<.01	<1	<0.01			<0.01		
140285		<10	<.01	<1	<0.01			<0.01		
140286		<10	<.01	<1	<0.01			<0.01		
140287		<10	<.01	<1	<0.01			<0.01		
140288		<10	<.01	3	0.32			0.04		
140289		<10	<.01	3	1.17			0.19		
140290		<10	<.01	2	0.79			0.65		
140291		<10	<.01	2	0.99			0.77		
140292		<10	<.01	<1	<0.01			0.04		
140293		<10	<.01	<1	<0.01			0.71		
140294		<10	<.01	<1	<0.01			0.97		
140295		<10	<.01	<1	<0.01			0.36		
140296		<10	<.01	<1	<0.01			4.68		
140297		<10	<.01	<1	<0.01			0.02		
140298		<10	<.01	<1	<0.01			0.68		
140299		<10	<.01	3	0.05			9.75		
140300		<10	<.01	2	<0.01			0.55		
140301		<10	<.01	11	<0.01			0.03		
140302		<10	<.01	3	<0.01			0.10		
140303		<10	<.01	5	<0.01			0.20		



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SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
140304		<5	<0.7	0.3	<1	7	152	<1	3	<1	0.8	<5	16	<5	0.07	402	<10	1496	1	1	<20	<20	<1	0.01	0.36	>10.00	<.01	<.01	202	3	<2	<1	9	<5
140305		<5	<0.7	0.3	<1	6	38	<1	2	<1	<0.2	<5	6	<5	0.04	325	<10	42	<1	2	<20	<20	<1	0.01	0.16	>10.00	<.01	<.01	153	1	<2	<1	9	<5
140306		<5	<0.7	0.5	4	45	119	<1	21	5	0.4	<5	85	18	>10.00	303	14	14	29	9	<20	<20	<1	0.12	0.03	1.89	<.01	<.01	13	<1	7	<1	2	<5
140307		<5	<0.7	0.4	5	50	175	<1	33	8	0.4	<5	114	26	>10.00	307	18	14	36	11	<20	<20	<1	0.14	0.03	1.51	<.01	<.01	9	<1	8	<1	3	<5
140308		<5	<0.7	0.3	2	8	146	<1	<1	<1	1.1	<5	<5	<5	0.11	223	<10	69	1	1	<20	<20	<1	0.02	4.46	>10.00	<.01	<.01	161	<1	<2	2	8	<5
140309		<5	<0.7	0.5	<1	7	62	<1	3	<1	<0.2	<5	17	<5	0.40	1110	<10	25	<1	2	<20	<20	<1	0.01	0.13	>10.00	<.01	<.01	131	4	<2	<1	9	<5
140310		<5	2.3	1.8	59	1502	1464	18	60	9	1.5	<5	373	148	5.54	756	<10	812	119	51	<20	<20	8	0.35	0.02	0.21	<.01	0.09	3	10	3	1	<1	<5
140311		<5	3.6	2.0	68	648	2751	24	125	20	1.9	<5	481	278	7.17	536	<10	867	120	53	<20	<20	13	0.44	0.02	0.05	<.01	0.14	3	13	3	2	<1	<5
140312		<5	13.9	8.7	372	3549	>10000	17	570	72	87.1	<5	643	152	>10.00	4589	37	635	6	16	26	<20	10	0.34	0.01	0.05	<.01	0.01	5	43	10	1	2	<5
140313		<5	<0.7	0.2	<1	13	46	<1	2	<1	<0.2	<5	<5	<5	0.12	110	<10	375	1	<1	<20	<20	<1	0.02	1.49	>10.00	<.01	<.01	148	<1	<2	1	9	<5
140351		8	1.2	0.8	34	77	3566	12	91	18	16.7	<5	56	14	3.80	1208	<10	57	113	55	<20	<20	<1	0.34	0.49	1.27	<.01	0.12	20	9	<2	2	<1	<5
140352		84	1520.1	>200.0	4788	>10000	>10000	19	101	22	397.6	7	819	1665	>10.00	2425	46	21	40	44	>2000	45	12	0.75	0.07	0.27	0.01	0.10	23	55	49	3	2	<5
140353		<5	1.3	2.0	51	327	1488	36	110	13	11.9	<5	74	21	2.88	436	<10	62	103	44	<20	<20	<1	0.39	0.24	6.93	<.01	0.13	193	10	<2	1	2	<5
140354		<5	3.5	2.7	9	571	58	4	17	<1	0.4	<5	17	6	1.56	372	<10	35	5	25	<20	<20	<1	0.03	0.17	>10.00	<.01	<.01	318	2	<2	<1	10	<5
140355		<5	<0.7	0.4	<1	28	175	<1	3	<1	0.8	<5	<5	<5	0.08	223	<10	37	1	1	<20	<20	<1	0.01	0.66	>10.00	<.01	<.01	143	1	<2	<1	8	<5
140356		<5	4.0	1.5	176	972	>10000	8	236	147	803.8	<5	183	372	>10.00	15130	47	53	1	10	<20	39	22	0.12	0.61	1.83	<.01	<.01	6	45	3	<1	2	<5
140357		16	7.5	3.5	313	1094	3124	17	154	15	4.7	<5	244	32	7.33	220	<10	392	61	93	22	<20	14	1.04	0.03	0.11	<.01	0.14	21	14	4	3	<1	5
140358		<5	<0.7	0.7	78	224	1018	11	36	2	2.0	<5	90	28	2.17	35	<10	586	120	49	<20	<20	14	0.62	0.02	0.03	<.01	0.17	5	8	<2	2	<1	<5
140359		11	3.3	2.8	66	1307	1304	11	28	2	2.3	<5	76	16	2.39	21	<10	637	91	50	20	<20	12	0.53	0.02	0.02	<.01	0.13	10	11	<2	2	<1	<5
140360		7	1.9	1.3	129	602	2018	19	53	3	3.1	<5	110	36	3.95	38	<10	>2000	73	81	<20	<20	13	1.17	0.05	0.05	<.01	0.25	10	14	3	3	<1	<5
140361		6	6.4	3.7	873	2865	8753	19	492	17	13.2	<5	536	166	>10.00	128	<10	923	10	109	<20	<20	12	7.08	0.05	0.50	<.01	0.05	36	149	5	5	4	<5
140362		17	12.2	7.7	834	3644	9354	11	488	16	20.6	<5	683	180	>10.00	261	11	544	9	71	<20	<20	16	6.98	0.17	1.04	0.01	0.05	51	133	5	6	6	6
140363		7	7.3	4.7	919	3779	9710	11	521	17	22.6	<5	717	182	>10.00	166	12	540	8	66	<20	<20	19	7.53	0.11	0.67	0.01	0.06	45	151	6	6	5	6
140364		<5	<0.7	0.6	10	147	872	<1	9	2	7.7	<5	39	9	0.75	3450	<10	77	3	6	<20	<20	<1	0.03	3.64	>10.00	<.01	<.01	141	7	<2	1	8	<5
140365		<5	<0.7	0.5	1	71	105	<1	1	<1	0.9	<5	8	<5	0.06	347	<10	25	1	1	<20	<20	<1	0.01	0.45	>10.00	<.01	<.01	170	3	<2	<1	8	<5
140366		<5	<0.7	0.6	<1	117	2409	<1	22	8	32.2	<5	40	56	0.91	1521	<10	630	1	2	<20	<20	<1	0.03	0.26	>10.00	<.01	<.01	124	4	<2	<1	8	<5
140367		<5	<0.7	0.3	<1	33	1162	<1	11	5	6.3	<5	8	11	0.38	661	<10	36	1	<1	<20	<20	<1	0.02	0.48	>10.00	<.01	<.01	162	2	<2	<1	9	<5
140368		21	4.4	2.9	14	277	5543	2	68	37	32.4	<5	92	67	3.10	2706	<10	61	1	5	<20	<20	<1	0.06	0.71	>10.00	<.01	0.01	117	7	<2	<1	9	<5
140369		<5	<0.7	0.4	<1	235	3912	<1	33	8	27.9	<5	52	124	1.13	902	<10	27	1	1	<20	<20	<1	0.03	0.60	>10.00	<.01	<.01	128	5	<2	<1	8	<5
140370		<5	<0.7	0.5	1	385	1902	<1	23	4	17.4	<5	56	167	0.86	727	<10	23	<1	1	<20	<20	<1	0.02	0.54	>10.00	<.01	<.01	115	3	<2	<1	9	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140304	<10	<.01	<1	<0.01				0.02		
140305	<10	<.01	<1	<0.01				0.01		
140306	<10	<.01	<1	<0.01				0.02		
140307	<10	<.01	<1	0.01				0.03		
140308	<10	<.01	<1	<0.01				0.03		
140309	<10	<.01	<1	<0.01				<0.01		
140310	<10	<.01	8	0.15				0.16		
140311	<10	<.01	11	0.07				0.31		
140312	<10	<.01	2	0.36				7.29		
140313	<10	<.01	<1	<0.01				<0.01		
140351	<10	<.01	6	<0.01				0.42		
140352	<10	<.01	11	>15.00	29.11	29.01		7.70		
140353	<10	<.01	13	0.02				0.20		
140354	<10	<.01	<1	0.06				<0.01		
140355	<10	<.01	<1	<0.01				0.02		
140356	<10	<.01	<1	0.11			>15.00	28.20		
140357	<10	<.01	9	0.12				0.38		
140358	<10	<.01	9	0.02				0.11		
140359	<10	<.01	7	0.13				0.13		
140360	<10	<.01	10	0.06				0.23		
140361	<10	<.01	5	0.29				1.52		
140362	<10	<.01	4	0.38				1.73		
140363	<10	<.01	5	0.39				1.75		
140364	<10	<.01	<1	0.02				0.14		
140365	<10	<.01	<1	<0.01				0.02		
140366	<10	<.01	<1	0.01				0.36		
140367	<10	<.01	<1	<0.01				0.18		
140368	<10	<.01	<1	0.03				0.92		
140369	<10	<.01	<1	0.03				0.64		
140370	<10	<.01	<1	0.04				0.28		



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SAMPLE NUMBER	ELEMENT UNITS	Au30 AgGrav PPB PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
140371		<5 <0.7	0.2	<1	13	17	<1	1	<1	<0.2	<5	<5	<5	0.09	90	<10	435	1	<1	<20	<20	<1	0.02	1.08	>10.00	<.01	<.01	149	<1	<2	<1	8	<5



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SAMPLE NUMBER	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
140371		<10	<.01	<1	<0.01					<0.01



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PROJECT: SILVERTIP
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STANDARD NAME	ELEMENT UNITS	AU30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM		
ANALYTICAL BLANK		<5	-	<0.2	2	<2	<1	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5
ANALYTICAL BLANK		6	-	<0.2	<1	<2	<1	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	
ANALYTICAL BLANK		<5	-	<0.2	<1	<2	<1	<1	<1	<1	<0.2	<5	<5	<5	<0.01	<1	<10	<1	<1	<1	<20	<20	<1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1	<1	<2	<1	<1	<5	
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ANALYTICAL BLANK		<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Number of Analyses		5	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Mean Value		3	-	0.1	0.9	1	0.5	0.5	0.5	0.5	0.1	3	3	3	0.005	0.5	5	0.5	0.5	0.5	10	10	0.5	.005	.005	0.005	.005	.005	0.5	0.5	1	0.5	0.5	3	3	
Standard Deviation		2	-	.00004	0.7	-	-	-	-	-	.00004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Accepted Value		5	0.005	0.2	1	2	1	1	1	1	0.1	2	5	5	0.05	1	.01	0.005	1	1	0.005	.01	.01	<.01	<.01	<.0001	<.01	<.01	.01	.01	.01	.01	.01	.01	.01	
Gannet Standard		171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 6		-	-	<0.2	123	24	141	2	131	27	0.5	<5	129	<5	6.51	1235	<10	8	160	42	<20	<20	<1	1.75	2.35	3.33	0.01	0.04	72	3	5	18	3	8	8	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.1	123	24	141	2	131	27	0.5	3	129	3	6.51	1235	5	8	160	42	10	10	0.5	1.75	2.35	3.33	0.01	0.04	72	3	5	18	3	8	8	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	0.2	140	18	140	4	135	35	0.2	1	145	1	6.50	1450	-	6	170	50	5	12	-	1.80	2.70	4.00	0.01	0.04	70	3	-	24	2	6	6	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 58(10/22)

STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-	-
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-	-
ANALYTICAL BLANK		<10	<.01	<1	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
ANALYTICAL BLANK		-	-	-	-	-	-	-	-	-
Number of Analyses		3	3	3	-	-	-	-	-	-
Mean Value		5	.005	0.5	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		.01	<.01	.01	<.0001	<.0001	<.001	<.0001	<.001	.005
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 6		<10	<.01	6	-	-	-	-	-	-
Number of Analyses		1	1	1	-	-	-	-	-	-
Mean Value		5	.005	6	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		1	.003	5	-	-	-	-	-	5



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PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
Gannet Standard		1447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		1447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1585	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANMET CERTIFIED STD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	17.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard		416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 5		-	0.6	96	12	77	<1	37	21	<0.2	<5	6	<5	4.88	722	<10	209	50	125	<20	<20	6	3.27	1.68	1.14	0.06	0.35	43	8	<2	26	3	11		
Number of Analyses		-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	0.6	96	12	77	0.5	37	21	0.1	3	6	3	4.88	722	5	209	50	125	10	10	6	3.27	1.68	1.14	0.06	0.35	43	8	1	26	3	11		
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	0.7	90	11	80	2	40	18	0.1	1	8	1	4.74	720	0.2	200	54	133	4	2	5	3.09	1.83	1.08	0.06	0.32	39	9	4	-	1	18		



Intertek Testing Services

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STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
CANMET CERTIFIED STD		-	-	-	4.31	-	-	>15.00	-	-
Number of Analyses		-	-	-	1	-	-	1	-	-
Mean Value		-	-	-	4.31	-	-	15.00	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	4.33	4.32	4.33	19.02	19.02	-
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
FA SYNTHETIC STD		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 5		<10	0.21	13	-	-	-	-	-	-
Number of Analyses		1	1	1	-	-	-	-	-	-
Mean Value		5	0.21	13	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		1	-	9	-	-	-	-	-	-



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PAGE 7A(13/22)

STANDARD NAME	ELEMENT UNITS	AL30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gannet Standard		2315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		2315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		2450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		-	-	0.9	253	33	226	2	38	9	0.9	<5	26	<5	2.84	539	<10	59	77	8	<20	<20	2	0.81	1.17	1.38	0.05	0.14	37	3	<2	6	1	<5	
Number of Analyses		-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mean Value		-	-	0.9	253	33	226	2	38	9	0.9	3	26	3	2.84	539	5	59	77	8	10	10	2	0.81	1.17	1.38	0.05	0.14	37	3	1	6	1	3	
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	1.1	290	33	255	4	42	9	0.8	1	30	1	2.60	600	0.1	55	80	9	5	1	4	0.77	1.34	1.43	0.04	0.14	39	4	2	7	1	12	
BCC Base Metal Ref.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorspar Granite		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithium Ore		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 7B(14/22)

STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
BCC Base Metal Ref.		-	-	-	5.65	-	-	11.93	-	-
Number of Analyses		-	-	-	1	-	-	1	-	-
Mean Value		-	-	-	5.65	-	-	11.93	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	5.66	5.66	5.66	11.88	11.88	-
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-
BCC GEOCHEM STD 4		<10	<.01	11	-	-	-	-	-	-
Number of Analyses		1	1	1	-	-	-	-	-	-
Mean Value		5	.005	11	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		1	0.01	8	-	-	-	-	-	5
BCC Base Metal Ref.		-	-	-	8.21	-	-	-	-	-
Number of Analyses		-	-	-	1	-	-	-	-	-
Mean Value		-	-	-	8.21	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	8.28	8.28	8.28	3.04	3.04	-
Fluorspar Granite		-	-	-	-	-	-	-	-	5
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	5
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	3
Lithium Ore		-	-	-	-	-	-	-	-	1922
Number of Analyses		-	-	-	-	-	-	-	-	1
Mean Value		-	-	-	-	-	-	-	-	1922
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	1900



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 8A(15/22)

PROJECT: SILVERTIP

STANDARD	ELEMENT	Au30	AgGrav	Ag	Cu	Pb	Zn	Mo	Ni	Co	Cd	Bi	As	Sb	Fe	Mn	Te	Ba	Cr	V	Sn	W	La	Al	Mg	Ca	Na	K	Sr	Y	Ga	Li	Nb	Sc	
NAME	UNITS	PPB	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PCT	PCT	PCT	PCT	PCT	PPM	PPM	PPM	PPM	PPM	PPM	
Garnet Standard		1030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Number of Analyses		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mean Value		1030	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accepted Value		1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Intertek Testing Services
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**Geochemical
Lab
Report**

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97

DATE PRINTED: 23-OCT-97 PAGE 88(16/22)

PROJECT: SILVERTIP

STANDARD NAME	ELEMENT UNITS	Ta PPM	Ti PCT	Zr PPM	Pb PCT	Pb PCT	Pb PCT	Zn PCT	Zn PCT	Sn PPM
Gannet Standard		-	-	-	-	-	-	-	-	-
Number of Analyses		-	-	-	-	-	-	-	-	-
Mean Value		-	-	-	-	-	-	-	-	-
Standard Deviation		-	-	-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-	-	-



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

PROJECT: SILVERTIP
DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 9A(17/22)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	Ag Grav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
140981 Duplicate		78	103.0	93.4	588	4150	>10000	1	39	6	570.6	563	2383	155	>10.00	581	57	10	130	6	77	144	<1	0.16	<.01	0.02	<.01	0.06	3	<1	40	<1	<1	<5
140248 Prep Duplicate		13 12	12.3 10.9	11.4	1442	2547 2642	>10000	12	51	6	132.7	<5	1547	483	>10.00	452	21	166	28	16	<20	<20	6	0.17	0.04	2.06	<.01	0.03	12	6	8	1	2	<5
140249 Duplicate		<5	<0.7 <0.7	0.4	54	104	9019	3	12	3	62.5	<5	24	19	0.94	674	<10	113	<1	3	<20	<20	<1	0.01	0.47	>10.00	<.01	<.01	181	4	<2	<1	9	<5
140251 Duplicate		<5 6	<0.7	0.3	11 10	24 21	284 280	<1 <1	<1 <1	<1	2.0 1.9	<5 <5	<5 <5	<5	0.21 0.20	405 402	<10 <10	90 89	4 4	1 1	<20 <20	<20 <20	<1	0.02 0.02	9.07 8.93	>10.00 >10.00	0.01 0.01	<.01 <.01	136 136	1 1	<2 <2	3 3	7 6	<5 <5
140253 Duplicate		<5	<0.7	0.3	5	15	76	<1	3	<1	0.5	<5	18	<5	0.93	177	<10	41	2	1	<20	<20	<1	0.02	0.56	>10.00	<.01	<.01	269	2	<2	<1	10	<5
140258 Duplicate		120	50.5	44.1	191	4130	4315	12	38	3	21.8	12	896	723	5.69	114	<10	18	184	9	149	<20	2	0.12	<.01	0.13	<.01	0.04	4	1	4	<1	<1	<5
140261 Duplicate		7	7.1 7.0	5.3	153	697	>10000	1	22	2	98.9	<5	568	160	5.55	1776	15	32	4	10	<20	20	<1	0.09	7.52	>10.00	<.01	<.01	81	10	<2	<1	5	<5
140263 Duplicate		10	1.9	2.0	43	61	2880	<1	9	2	8.7	<5	185	5	2.34	954	<10	4	13	1	25	<20	7	0.02	0.27	>10.00	<.01	<.01	110	4	<2	<1	9	<5
140268 Duplicate		15	17.2	20.9 20.9	52 56	9765 9284	38 39	<1 <1	1 1	<1 <1	0.5 0.5	23 23	720 726	1188 1198	3.86 3.92	449 444	<10 <10	6 6	16 15	1 1	25 27	<20 <20	<1 <1	0.03 0.03	0.41 0.40	>10.00 >10.00	<.01 <.01	<.01 <.01	156 157	2 2	<2 <2	<1 <1	9 9	<5 <5
140272 Duplicate		15	99.8 98.7	54.2	249	>10000	4750	<1	2	<1	21.4	10	333	456	1.88	428	<10	5	11	<1	147	<20	<1	0.02	0.28	>10.00	<.01	<.01	110	2	4	<1	7	<5
140273 Duplicate		16	218.4	127.9	580	>10000	4857	<1	<1	<1	25.3	<5	866	1328	2.86	405	<10	5	13	<1	404	<20	<1	0.02	0.23	>10.00	<.01	<.01	108	2	4	<1	8	<5
140274 Duplicate		<5 <5	16.0	11.4	23	3930	188	<1	1	<1	1.0	<5	52	53	0.28	297	<10	334	2	<1	<20	<20	<1	0.01	0.22	>10.00	<.01	<.01	140	1	<2	<1	9	<5



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 98(18/22)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140981		<10	<.01	1	0.41			>15.00	17.24	
Duplicate					0.42			>15.00		
140248		<10	<.01	2	0.24			4.10		
Prep Duplicate					0.26					
140249		<10	<.01	<1	0.01			1.71		
Duplicate										
140251		<10	<.01	<1	<0.01			0.04		
Duplicate		<10	<.01	<1						
140253		<10	<.01	<1	<0.01			<0.01		
Duplicate					<0.01			<0.01		
140258		<10	<.01	3	0.41			0.54		155
Duplicate					0.40			0.51		
140261		<10	<.01	<1	0.08			3.70		
Duplicate										
140263		<10	<.01	<1	0.01			0.50		
Duplicate					<0.01			0.49		
140268		<10	<.01	<1	1.17			0.01		68
Duplicate		<10	<.01	<1	1.16			<0.01		
140272		<10	<.01	<1	2.34			1.30		422
Duplicate										389
140273		<10	<.01	<1	5.53			0.98		784
Duplicate					5.54			0.97		
140274		<10	<.01	<1	0.39			0.04		
Duplicate										



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

PROJECT: SILVERTIP

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 10A(19/22)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
140277 Duplicate		8	<0.7	0.4	<1	85	63	<1	2	<1	0.2	<5	7	<5	2.90	228	<10	45	3	2	<20	<20	<1	0.02	0.21	>10.00	<.01	<.01	111	3	<2	<1	9	<5
140283 Duplicate		<5	<0.7 <0.7	0.3	<1	14	97	<1	<1	<1	0.4	<5	<5	<5	0.13	301	<10	159	2	<1	<20	<20	<1	0.01	5.62	>10.00	<.01	<.01	139	1	<2	2	7	<5
140285 Duplicate		<5	<0.7	0.3	<1	25	5	1	3	<1	<0.2	<5	<5	<5	0.82	546	<10	82	<1	1	<20	<20	<1	<.01	1.44	>10.00	<.01	<.01	162	3	<2	<1	9	<5
140287 Duplicate		<5	<0.7	0.4 0.5	2 1	31 32	17 16	3 3	7 7	<1 <1	<0.2 <0.2	<5 <5	11 10	<5 <5	2.09 2.02	452 442	<10 <10	55 59	1 1	2 2	<20 <20	<20 <20	<1 <1	0.01 0.01	2.01 1.95	>10.00 >10.00	<.01 <.01	<.01 <.01	193 183	3 3	<2 <2	<1 <1	10 10	<5 <5
140290 Duplicate		165	63.6	48.5	265	7863	4540	32	58	9	53.2	81	3902	440	>10.00	855	14	95	64	28	74	<20	6	0.48	<.01	0.06	<.01	0.02	3	18	14	<1	<1	<5
140294 Duplicate		23	1.9 2.0	1.4	75	42	5532	<1	24	6	28.5	<5	551	6	>10.00	1310	12	7	49	2	32	<20	2	0.07	0.16	>10.00	<.01	<.01	70	4	3	<1	5	<5
140295 Duplicate		<5	<0.7	0.4	9	16	2394	<1	8	1	16.2	<5	6	<5	0.24	807	<10	6	3	2	<20	<20	<1	0.01	0.79	>10.00	<.01	<.01	160	2	<2	<1	9	<5
140296 Duplicate		8 <5	<0.7	0.6	159	49	>10000	<1	80	15	161.3	<5	160	21	5.46	2103	18	29	18	2	<20	<20	4	0.06	0.21	>10.00	<.01	<.01	151	10	<2	<1	7	<5
140300 Duplicate		<5	6.5	4.3	40	65	3472	<1	42	24	20.8	<5	51	27	2.84	2883	<10	78	4	7	<20	<20	<1	0.07	0.51	>10.00	<.01	0.02	113	7	<2	<1	8	<5
140304 Duplicate		<5	<0.7	0.3 0.3	<1 <1	7 8	152 140	<1 <1	3 3	<1 <1	0.8 0.7	<5 <5	16 15	<5 <5	0.07 0.07	402 409	<10 <10	1496 1561	1 1	1 1	<20 <20	<20 <20	<1 <1	0.01 0.01	0.36 0.37	>10.00 >10.00	<.01 <.01	<.01 <.01	202 211	3 3	<2 <2	<1 <1	9 9	<5 <5
140305 Duplicate		<5	<0.7	0.3	<1	6	38	<1	2	<1	<0.2	<5	6	<5	0.04	325	<10	42	<1	2	<20	<20	<1	0.01	0.16	>10.00	<.01	<.01	153	1	<2	<1	9	<5
140306 Duplicate		<5	<0.7 <0.7	0.5	4	45	119	<1	21	5	0.4	<5	85	18	>10.00	303	14	14	29	9	<20	<20	<1	0.12	0.03	1.89	<.01	<.01	13	<1	7	<1	2	<5



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 108(20/22)

PROJECT: SILVERTIP

SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140277		<10	<.01	<1	0.01			<0.01		
Duplicate					0.02			0.01		
140283		<10	<.01	<1	<0.01			<0.01		
Duplicate										
140285		<10	<.01	<1	<0.01			<0.01		
Duplicate					<0.01			0.01		
140287		<10	<.01	<1	<0.01			<0.01		
Duplicate		<10	<.01	<1						
140290		<10	<.01	2	0.79			0.65		
Duplicate					0.81			0.69		
140294		<10	<.01	<1	<0.01			0.97		
Duplicate										
140295		<10	<.01	<1	<0.01			0.36		
Duplicate					<0.01			0.36		
140296		<10	<.01	<1	<0.01			4.68		
Duplicate										
140300		<10	<.01	2	<0.01			0.55		
Duplicate					0.01			0.56		
140304		<10	<.01	<1	<0.01			0.02		
Duplicate		<10	<.01	<1						
140305		<10	<.01	<1	<0.01			0.01		
Duplicate					<0.01			<0.01		
140306		<10	<.01	<1	<0.01			0.02		
Duplicate										



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Geochemical Lab Report

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PROJECT: SILVERTIP

DATE RECEIVED: 06-OCT-97 DATE PRINTED: 23-OCT-97 PAGE 11A(21/22)

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AgGrav PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM
140309 Duplicate	<5	<0.7	0.5	<1	7	62	<1	3	<1	<0.2	<5	17	<5	0.40	1110	<10	25	<1	2	<20	<20	<1	0.01	0.13	>10.00	<.01	<.01	131	4	<2	<1	9	<5	
140354 Prep Duplicate	<5	3.5	2.7	9	571	58	4	17	<1	0.4	<5	17	6	1.56	372	<10	35	5	25	<20	<20	<1	0.03	0.17	>10.00	<.01	<.01	318	2	<2	<1	10	<5	
140355 Duplicate	<5	<0.7	0.4	<1	28	175	<1	3	<1	0.8	<5	<5	<5	0.08	223	<10	37	1	1	<20	<20	<1	0.01	0.66	>10.00	<.01	<.01	143	1	<2	<1	8	<5	
140356 Duplicate	<5	4.0	1.5	176	972	>10000	8	236	147	803.8	<5	183	372	>10.00	15130	47	53	1	10	<20	39	22	0.12	0.61	1.83	<.01	<.01	6	45	3	<1	2	<5	
140359 Duplicate	11	3.3	2.8	66	1307	1304	11	28	2	2.3	<5	76	16	2.39	21	<10	637	91	50	20	<20	12	0.53	0.02	0.02	<.01	0.13	10	11	<2	2	<1	<5	
140360 Duplicate	7	1.9	1.3	129	602	2018	19	53	3	3.1	<5	110	36	3.95	38	<10	>2000	73	81	<20	<20	13	1.17	0.05	0.05	<.01	0.25	10	14	3	3	<1	<5	
140364 Duplicate	<5	<0.7	0.6	10	147	872	<1	9	2	7.7	<5	39	9	0.75	3450	<10	77	3	6	<20	<20	<1	0.03	3.64	>10.00	<.01	<.01	141	7	<2	1	8	<5	
140365 Duplicate	<5	<0.7	0.5	1	71	105	<1	1	<1	0.9	<5	8	<5	0.06	347	<10	25	1	1	<20	<20	<1	0.01	0.45	>10.00	<.01	<.01	170	3	<2	<1	8	<5	
140367 Prep Duplicate	<5	<0.7	0.3	<1	33	1162	<1	11	5	6.3	<5	8	11	0.38	661	<10	36	1	<1	<20	<20	<1	0.02	0.48	>10.00	<.01	<.01	162	2	<2	<1	9	<5	
140369 Duplicate	<5	<0.7	0.4	<1	235	3912	<1	33	8	27.9	<5	52	124	1.13	902	<10	27	1	1	<20	<20	<1	0.03	0.60	>10.00	<.01	<.01	128	5	<2	<1	8	<5	



Intertek Testing Services

Bondar Clegg

Geochemical Lab Report

CLIENT: IMPERIAL METALS CORP.
REPORT: V97-02717.0 (COMPLETE)

DATE RECEIVED: 06-OCT-97

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PROJECT: SILVERTIP
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SAMPLE NUMBER	ELEMENT UNITS	Ta	Ti	Zr	Pb	Pb	Pb	Zn	Zn	Sn
		PPM	PCT	PPM	PCT	PCT	PCT	PCT	PCT	PPM
140309		<10	<.01	<1	<0.01			<0.01		
Duplicate					<0.01			<0.01		
140354		<10	<.01	<1	0.06			<0.01		
Prep Duplicate								<0.01		
140355		<10	<.01	<1	<0.01			0.02		
Duplicate					<0.01			0.02		
140356		<10	<.01	<1	0.11			>15.00	28.20	
Duplicate										
140359		<10	<.01	7	0.13			0.13		
Duplicate					0.13			0.15		
140360		<10	<.01	10	0.06			0.23		
Duplicate		<10	<.01	10						
140364		<10	<.01	<1	0.02			0.14		
Duplicate					0.02			0.13		
140365		<10	<.01	<1	<0.01			0.02		
Duplicate										
140367		<10	<.01	<1	<0.01			0.18		
Prep Duplicate		<10	<.01	<1	<0.01			0.19		
140369		<10	<.01	<1	0.03			0.64		
Duplicate					0.03			0.64		



Intertek Testing Services

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	In PPM	Ge PPM
D2 140246		6.64	2.1
D2 140246 DUPLICATE		8.16	2.5
D2 140258		1.55	1.3
D2 140267		0.22	2.5
D2 140268		0.38	1.7
D2 140269		0.59	1.3
D2 140270		12.90	2.2
D2 140271		0.20	1.0
D2 140272		9.19	1.3
D2 140273		7.75	1.9