



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS USA Inc.

4977 Energy Way
Reno NV 89502

Phone: 775 356 5395 Fax: 775 355 0179 www.alschemex.com

To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES
1525 3RD AVENUE EAST
HIBBING MN 55746

Page: 1
Finalized Date: 28-MAY-2010
Account: MINSTA

QC CERTIFICATE RE10060081

Project: 373

P.O. No.:

This report is for 228 Drill Core samples submitted to our lab in Reno, NV, USA on 17-MAY-2010.

The following have access to data associated with this certificate:

BARRY FREY

DENNIS MARTIN

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-21	Crush entire sample >70% -6 mm
PUL-QC	Pulverizing QC Test
CRU-QC	Crushing QC Test
SPL-33	Split Sample - scoop split
PUL-31	Pulverize split to 85% <75 um
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	38 element fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES

The results of this assay were based solely upon the content of the sample submitted. Any decision to invest should be made only after the potential investment value of the claim 'or deposit has been determined based on the results of assays of multiple samples of geological materials collected by the prospective investor or by a qualified person selected by him/her and based on an evaluation of all engineering data which is available concerning any proposed project.

To: MINNESOTA STATE DEPARTMENT OF NATURAL RESOURCES
ATTN: BARRY FREY
1525 3RD AVENUE EAST
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A

Total # Pages: 17 (A - E)

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QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
STANDARDS															
CCU-1c															34.2
Target Range - Lower Bound															32.1
Upper Bound															34.5
G2000	73.3	9.64	5.57	0.81	1.30	0.18	1.62	0.02	0.66	0.08	0.23	0.02	0.28		
G2000	74.9	9.35	5.38	0.84	1.26	0.20	1.51	0.02	0.64	0.07	0.22	0.01	0.29		
G2000	72.4	9.48	5.52	0.83	1.25	0.19	1.54	0.02	0.65	0.07	0.22	0.02	0.29		
Target Range - Lower Bound	70.2	9.02	5.15	0.77	1.19	0.20	1.47	<0.01	0.56	0.07	0.20	<0.01	0.24		
Upper Bound	77.6	9.99	5.71	0.87	1.33	0.24	1.65	0.03	0.64	0.09	0.24	0.02	0.28		
GAu-11a															
GAu-11a															
Target Range - Lower Bound															
Upper Bound															
GBM3961c															
GBM3961c															
GBM3961c															
GBM3961c															
GBM3961c															
Target Range - Lower Bound															
Upper Bound															
GBM3961c															
GBM3961c															
GBM3961c															
Target Range - Lower Bound															
Upper Bound															
GBM999-5															
GBM999-5															
GBM999-5															
Target Range - Lower Bound															
Upper Bound															
GBM999-5															
GBM999-5															
GBM999-5															
GBM999-5															
Target Range - Lower Bound															
Upper Bound															

Comments: Low whole rock totals confirmed by re-analysis.



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QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
STANDARDS															
CCU-1c															
Target Range - Lower Bound															
Upper Bound															
G2000	2270	51.1	180	11.75	4.63	2.80	1.19	12.5	5.06	7.2	0.96	27.8	0.43	13.0	25.5
G2000	2350	52.3	120	11.90	4.61	2.88	1.18	13.0	5.21	7.0	0.96	28.4	0.42	13.6	26.0
G2000	2370	48.9	110	11.45	4.76	2.82	1.26	12.1	5.55	6.7	0.85	27.1	0.37	12.4	26.8
G2000	2530	54.4	120	13.05	4.95	2.98	1.23	12.7	5.55	7.5	1.01	29.5	0.45	13.1	27.2
Target Range - Lower Bound	2120	47.4	100	11.15	4.05	2.46	1.02	11.6	4.79	6.2	0.85	25.9	0.37	11.8	23.2
Upper Bound	2600	59.0	140	13.65	5.06	3.08	1.32	14.4	5.97	8.0	1.06	32.7	0.47	14.9	28.6
GAu-11a															
GAu-11a															
Target Range - Lower Bound															
Upper Bound															
GBM3961c															
GBM3961c															
GBM3961c															
GBM3961c															
GBM3961c															
Target Range - Lower Bound															
Upper Bound															
GBM3961c															
GBM3961c															
GBM3961c															
Target Range - Lower Bound															
Upper Bound															
GBM999-5															
GBM999-5															
GBM999-5															
Target Range - Lower Bound															
Upper Bound															
GBM999-5															
GBM999-5															
GBM999-5															
GBM999-5															
Target Range - Lower Bound															
Upper Bound															

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Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
STANDARDS																
CCU-1c																
Target Range - Lower Bound																
Upper Bound																
G2000		6.77	68.8	4.94	2	120.0	0.9	0.81	8.15	0.7	0.41	4.03	136	18	26.3	2.77
G2000		6.94	67.2	5.08	2	115.0	1.0	0.82	7.81	<0.5	0.39	3.72	102	19	25.6	2.74
G2000		6.55	70.4	5.31	2	112.0	0.8	0.73	7.77	0.6	0.38	3.72	98	18	26.5	2.69
G2000		7.18	72.9	4.97	2	125.5	1.0	0.85	7.54	0.7	0.42	3.91	110	18	27.8	2.77
Target Range - Lower Bound		6.22	62.8	4.54	<1	104.5	0.8	0.71	6.95	<0.5	0.36	3.60	90	18	23.3	2.36
Upper Bound		7.66	77.2	5.62	3	127.5	1.2	0.89	8.61	1.0	0.46	4.52	121	24	29.6	2.95
GAu-11a																
GAu-11a																
Target Range - Lower Bound																
Upper Bound																
GBM3961c																
GBM3961c																
GBM3961c																
GBM3961c																
GBM3961c																
Target Range - Lower Bound																
Upper Bound																
GBM3961c																
GBM3961c																
GBM3961c																
Target Range - Lower Bound																
Upper Bound																
GBM999-5																
GBM999-5																
GBM999-5																
Target Range - Lower Bound																
Upper Bound																
GBM999-5																
GBM999-5																
GBM999-5																
GBM999-5																
Target Range - Lower Bound																
Upper Bound																

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Page: 2 - D

Total # Pages: 17 (A - E)

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QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
Sample Description	2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
STANDARDS															
CCU-1c															
Target Range - Lower Bound															
Upper Bound															
G2000	276														
G2000	284														
G2000	256														
G2000	272														
Target Range - Lower Bound	243														
Upper Bound	302														
GAu-11a															
GAu-11a															
Target Range - Lower Bound															
Upper Bound															
GBM3961c										9.4	21.9	169	3040	9	2130
GBM3961c										9.0	22.0	161	3160	11	2120
GBM3961c										9.0	21.5	160	3050	10	2160
GBM3961c										9.1	20.4	162	3010	8	2010
GBM3961c										9.3	21.5	160	3010	9	2140
Target Range - Lower Bound										6.8	18.9	143	2580	8	1925
Upper Bound										9.4	24.2	177	3160	12	2360
GBM3961c		>250	23.0	0.782	22.3	5.7	2.98								
GBM3961c		>250	21.2	0.722	22.9	5.0	3.18								
GBM3961c		>250	22.0	0.650	22.5	5.0	2.97								
Target Range - Lower Bound		669	22.3	0.590	21.0	4.8	2.90								
Upper Bound		>250	27.3	0.810	28.5	6.3	3.57								
GBM999-5										53.9	<0.5	2	468	2	3
GBM999-5										57.6	0.5	3	494	4	6
GBM999-5										57.3	<0.5	3	478	3	2
Target Range - Lower Bound										53.0	<0.5	2	428	3	3
Upper Bound										65.8	1.0	4	526	5	5
GBM999-5		2.8	0.53	0.040	4.46	0.9	0.28								
GBM999-5		3.1	0.54	0.038	4.85	1.0	0.28								
GBM999-5		2.7	0.48	0.030	4.56	1.0	0.26								
GBM999-5		3.4	0.57	0.037	5.38	1.4	0.28								
Target Range - Lower Bound		2.7	0.50	0.028	4.14	0.9	0.23								
Upper Bound		3.5	0.64	0.050	5.72	1.5	0.31								

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Page: 2 - E

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QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
Sample Description							
STANDARDS							
CCU-1c							
Target Range - Lower Bound							
Upper Bound							
G2000							
G2000							
G2000							
G2000							
Target Range - Lower Bound							
Upper Bound							
GAu-11a				0.006	<0.005	<0.001	
GAu-11a				0.009	<0.005	<0.001	
Target Range - Lower Bound				0.009			
Upper Bound				0.012			
GBM3961c	1990	7100					
GBM3961c	1950	6870					
GBM3961c	1960	6940					
GBM3961c	1830	6660					
GBM3961c	1870	6750					
Target Range - Lower Bound	1720	6290					
Upper Bound	2110	7690					
GBM3961c							
GBM3961c							
GBM3961c							
Target Range - Lower Bound							
Upper Bound							
GBM999-5	520	114					
GBM999-5	536	114					
GBM999-5	537	116					
Target Range - Lower Bound	486	102					
Upper Bound	598	129					
GBM999-5							
GBM999-5							
GBM999-5							
GBM999-5							
Target Range - Lower Bound							
Upper Bound							

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Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
STANDARDS															
GEOMS-03															
GEOMS-03															
GEOMS-03															
Target Range - Lower Bound															
Upper Bound															
GPP-01															
GPP-01															
GPP-01															
GPP-01															
GPP-01															
Target Range - Lower Bound															
Upper Bound															
GPP-02															
Target Range - Lower Bound															
Upper Bound															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
Target Range - Lower Bound															
Upper Bound															
MA-1b															2.47
MA-1b															2.47
MA-1b															2.37
MA-1b															2.40
MA-1b															2.43
MA-1b															2.43
MA-1b															2.42
MA-1b															2.44
MA-1b															2.50

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Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
GEOMS-03	STANDARDS														
GEOMS-03															
GEOMS-03															
Target Range - Lower Bound															
Upper Bound															
GPP-01															
GPP-01															
GPP-01															
GPP-01															
GPP-01															
Target Range - Lower Bound															
Upper Bound															
GPP-02															
Target Range - Lower Bound															
Upper Bound															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
Target Range - Lower Bound															
Upper Bound															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
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Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
Sample Description															
GEOMS-03	STANDARDS														
GEOMS-03															
GEOMS-03															
Target Range - Lower Bound															
Upper Bound															
GPP-01															
GPP-01															
GPP-01															
GPP-01															
GPP-01															
Target Range - Lower Bound															
Upper Bound															
GPP-02															
Target Range - Lower Bound															
Upper Bound															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
LKSD-3															
Target Range - Lower Bound															
Upper Bound															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
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Sample Description	2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
STANDARDS															
GEOMS-03	>250	0.35	0.661	10.15	2.0	0.09									
GEOMS-03	>250	0.36	0.748	12.65	2.0	0.12									
GEOMS-03	>250	0.35	0.650	9.88	2.0	0.10									
Target Range - Lower Bound	553	0.31	0.582	10.15	2.0	0.08									
Upper Bound	>250	0.40	0.799	13.85	2.8	0.12									
GPP-01															
GPP-01															
GPP-01															
GPP-01															
GPP-01															
Target Range - Lower Bound															
Upper Bound															
GPP-02															
Target Range - Lower Bound															
Upper Bound															
LKSD-3									13.30						
LKSD-3									13.60						
LKSD-3									13.40						
LKSD-3									13.35						
LKSD-3									13.40						
LKSD-3									13.50						
LKSD-3									13.50						
LKSD-3									13.20						
LKSD-3									13.00						
LKSD-3									13.10						
LKSD-3									13.30						
LKSD-3									13.20						
LKSD-3									13.20						
Target Range - Lower Bound									12.05						
Upper Bound									14.75						
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															

Comments: Low whole rock totals confirmed by re-analysis.



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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 3 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
STANDARDS								
GEOMS-03								
GEOMS-03								
GEOMS-03								
Target Range - Lower Bound								
Upper Bound								
GPP-01					0.879	0.995	0.754	
GPP-01					0.922	0.945	0.711	
GPP-01					0.962	0.950	0.735	
GPP-01					0.871	0.918	0.681	
GPP-01					0.968	0.975	0.724	
Target Range - Lower Bound					0.841	0.892	0.682	
Upper Bound					0.969	1.040	0.786	
GPP-02					0.916	0.501	0.497	
Target Range - Lower Bound					0.863	0.465	0.485	
Upper Bound					0.995	0.545	0.561	
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
LKSD-3								
Target Range - Lower Bound								
Upper Bound								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
MA-1b								

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HIBBING MN 55746

Page: 4 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

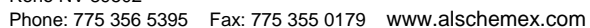
Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	LOR	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
STANDARDS															
MA-1b														2.50	
MA-1b														2.48	
MA-1b														2.50	
MA-1b														2.48	
MA-1b														2.49	
Target Range - Lower Bound														2.34	
Upper Bound														2.54	
MA-1b															1.19
MA-1b															1.18
MA-1b															1.20
MA-1b															1.16
MA-1b															1.18
MA-1b															1.19
MA-1b															1.19
Target Range - Lower Bound															1.12
Upper Bound															1.22
MP-1b															
Target Range - Lower Bound															
Upper Bound															
MRGeo08															
MRGeo08															
MRGeo08															
MRGeo08															
Target Range - Lower Bound															
Upper Bound															
OGGeo08															
Target Range - Lower Bound															
Upper Bound															
OREAS-13P		48.8	18.50	10.45	9.23	5.28	2.54	0.53	0.01	0.54	0.14	0.20	0.04	0.03	
OREAS-13P		48.2	18.55	10.35	9.33	5.27	2.56	0.54	0.02	0.54	0.14	0.15	0.04	0.03	
OREAS-13P		45.4	18.55	10.15	9.19	5.24	2.53	0.54	0.02	0.54	0.13	0.16	0.04	0.03	
OREAS-13P		48.2	19.15	11.10	10.00	5.33	2.48	0.56	0.02	0.55	0.14	0.17	0.04	0.03	
Target Range - Lower Bound		45.1	18.25	10.30	9.12	5.16	2.41	0.52	<0.01	0.53	0.13	0.15	0.03	0.02	
Upper Bound		49.9	20.2	11.40	10.10	5.72	2.69	0.59	0.03	0.60	0.16	0.19	0.05	0.04	

Comments: Low whole rock totals confirmed by re-analysis.



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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 4 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
Sample Description															
MA-1b	STANDARDS														
MA-1b															
MA-1b															
MA-1b															
MA-1b															
Target Range - Lower Bound															
Upper Bound															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
MA-1b															
Target Range - Lower Bound															
Upper Bound															
MP-1b															
Target Range - Lower Bound															
Upper Bound															
MRGeo08															
MRGeo08															
MRGeo08															
MRGeo08															
Target Range - Lower Bound															
Upper Bound															
OGGeo08															
Target Range - Lower Bound															
Upper Bound															
OREAS-13P															
OREAS-13P															
OREAS-13P															
OREAS-13P															
Target Range - Lower Bound															
Upper Bound															

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 4 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

	Method Analyte Units LOR	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	
Sample Description																	
	STANDARDS																
	MA-1b																
	MA-1b																
	MA-1b																
	MA-1b																
	MA-1b																
	Target Range - Lower Bound																
	Upper Bound																
	MA-1b																
	MA-1b																
	MA-1b																
	MA-1b																
	MA-1b																
	MA-1b																
	MA-1b																
	Target Range - Lower Bound																
	Upper Bound																
	MP-1b																
	Target Range - Lower Bound																
	Upper Bound																
	MRGeo08		30.9	0.65	0.070	2.95	1.2	0.02									
	MRGeo08		33.2	0.69	0.066	3.48	1.2	0.02									
	MRGeo08		34.7	0.79	0.082	3.03	1.2	0.03									
	MRGeo08		29.0	0.59	0.061	3.40	1.5	0.03									
	Target Range - Lower Bound		28.9	0.65	0.055	2.50	0.9	<0.01									
	Upper Bound		35.5	0.81	0.086	3.50	1.5	0.03									
	OGGeo08																
	Target Range - Lower Bound																
	Upper Bound																
	OREAS-13P																
	OREAS-13P																
	OREAS-13P																
	OREAS-13P																
	Target Range - Lower Bound																
	Upper Bound																

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 4 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
STANDARDS								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
Target Range - Lower Bound								
Upper Bound								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
MA-1b								
Target Range - Lower Bound								
Upper Bound								
MP-1b				48				
Target Range - Lower Bound				44				
Upper Bound				50				
MRGeo08								
MRGeo08								
MRGeo08								
MRGeo08								
Target Range - Lower Bound								
Upper Bound								
OGGeo08				20				
Target Range - Lower Bound				19				
Upper Bound				22				
OREAS-13P								
OREAS-13P								
OREAS-13P								
OREAS-13P								
Target Range - Lower Bound								
Upper Bound								

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 5 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
STANDARDS															
OREAS-13P	47.3	18.55	10.35	9.21	5.25	2.49	0.52	0.02	0.53	0.14	0.14	0.04	0.03		
OREAS-13P	48.8	19.20	10.75	9.56	5.46	2.56	0.55	0.02	0.54	0.15	0.19	0.04	0.03		
OREAS-13P	48.4	18.85	10.35	9.66	5.40	2.53	0.53	0.02	0.54	0.15	0.18	0.04	0.03		
OREAS-13P	46.7	18.90	10.55	9.47	5.34	2.44	0.54	0.02	0.53	0.14	0.15	0.04	0.03		
Target Range - Lower Bound	45.1	18.25	10.30	9.12	5.16	2.41	0.52	<0.01	0.53	0.13	0.15	0.03	0.02		
Upper Bound	49.9	20.2	11.40	10.10	5.72	2.69	0.59	0.03	0.60	0.16	0.19	0.05	0.04		
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OREAS-45P	45.7	12.85	23.1	0.37	0.36	0.19	0.39	0.16	1.83	0.26	0.07	0.01	0.03		
OREAS-45P	41.5	12.05	8.48	0.33	0.34	0.14	0.38	0.10	0.91	0.15	0.08	<0.01	0.03		
OREAS-45P	44.0	12.30	25.3	0.36	0.33	0.09	0.38	0.16	1.86	0.17	0.03	0.01	0.03		
Target Range - Lower Bound															
Upper Bound															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OXD73															
OXD73															
OXD73															
OXD73															
OXD73															
Target Range - Lower Bound															
Upper Bound															

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 5 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
STANDARDS															
OREAS-13P	236	23.5	200	0.21	3.39	2.01	1.40	16.4	3.57	2.3	0.71	10.7	0.25	3.1	14.1
OREAS-13P	253	25.5	150	0.23	3.75	2.05	1.46	19.1	4.00	2.7	0.74	11.8	0.27	3.3	14.8
OREAS-13P	251	23.8	130	0.21	3.72	2.09	1.43	18.0	3.94	2.2	0.62	11.1	0.23	2.9	15.0
OREAS-13P	258	25.0	140	0.23	3.56	2.09	1.43	17.2	3.81	2.3	0.72	11.6	0.28	3.1	14.9
Target Range - Lower Bound															
Upper Bound															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OREAS-45P	288	49.5	1050	1.99	3.84	2.25	1.16	29.5	3.91	7.1	0.77	25.2	0.32	22.6	21.8
OREAS-45P	280	50.7	690	2.05	3.73	2.07	1.19	20.2	4.24	8.2	0.81	25.1	0.31	17.7	22.0
OREAS-45P	256	44.5	1070	1.73	3.69	2.13	0.99	20.9	3.71	6.8	0.67	22.0	0.34	22.0	19.5
Target Range - Lower Bound	252	43.5	1020	1.66	3.64	1.95	1.05	20.2	3.55	6.5	0.69	21.8	0.27	21.4	18.8
Upper Bound	310	54.3	1260	2.06	4.56	2.45	1.35	24.9	4.45	8.3	0.87	27.8	0.35	26.6	23.2
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OXD73															
OXD73															
OXD73															
OXD73															
Target Range - Lower Bound															
Upper Bound															

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 5 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
Sample Description	STANDARDS														
OREAS-13P	3.17	13.5	3.34	1	330	0.2	0.61	1.82	<0.5	0.26	0.33	116	3	17.1	1.79
OREAS-13P	3.43	14.0	3.62	2	344	0.2	0.65	1.73	<0.5	0.28	0.31	95	3	17.8	1.84
OREAS-13P	3.18	14.9	3.68	1	337	0.2	0.55	1.72	<0.5	0.25	0.31	96	4	17.9	1.80
OREAS-13P	3.29	14.7	3.20	1	354	0.2	0.62	1.61	<0.5	0.26	0.31	100	3	17.9	1.77
Target Range - Lower Bound															
Upper Bound															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OREAS-45P	5.86	23.7	4.71	3	34.7	1.6	0.67	10.70	<0.5	0.28	2.33	252	5	17.3	2.13
OREAS-45P	5.73	23.7	4.76	3	33.6	1.8	0.71	10.15	<0.5	0.35	2.53	223	5	17.9	2.26
OREAS-45P	5.39	20.7	4.07	2	29.9	1.8	0.65	9.02	<0.5	0.22	2.33	223	6	16.2	1.92
Target Range - Lower Bound	4.83	20.5	4.03	2	29.2	1.3	0.61	8.77	<0.5	0.28	2.11	220	4	15.7	1.86
Upper Bound	5.97	25.5	4.99	4	36.0	1.9	0.77	10.85	1.0	0.36	2.69	280	7	20.3	2.34
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OXD73															
OXD73															
OXD73															
OXD73															
OXD73															
Target Range - Lower Bound															
Upper Bound															

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HIBBING MN 55746

Page: 5 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
Sample Description	2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
STANDARDS															
OREAS-13P	88														
OREAS-13P	116														
OREAS-13P	84														
OREAS-13P	84														
Target Range - Lower Bound															
Upper Bound															
OREAS-45P										<0.5	<0.5	108	731	1	348
OREAS-45P										0.8	<0.5	115	733	1	355
OREAS-45P										1.0	1.3	113	771	3	365
OREAS-45P										1.0	1.5	112	775	2	367
OREAS-45P										0.7	<0.5	110	761	1	371
OREAS-45P										0.7	<0.5	108	719	<1	334
OREAS-45P										0.9	<0.5	109	729	<1	338
OREAS-45P										<0.5	<0.5	112	733	1	358
Target Range - Lower Bound										<0.5	<0.5	107	673	<1	346
Upper Bound										1.0	1.0	133	825	2	425
OREAS-45P	287														
OREAS-45P	283														
OREAS-45P	251														
Target Range - Lower Bound	249														
Upper Bound	309														
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OXD73															
OXD73															
OXD73															
OXD73															
OXD73															
Target Range - Lower Bound															
Upper Bound															

Comments: Low whole rock totals confirmed by re-analysis.



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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 5 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
Sample Description							
STANDARDS							
OREAS-13P							
OREAS-13P							
OREAS-13P							
OREAS-13P							
Target Range - Lower Bound							
Upper Bound							
OREAS-45P	22	136					
OREAS-45P	23	142					
OREAS-45P	19	148					
OREAS-45P	20	144					
OREAS-45P	17	141					
OREAS-45P	18	136					
OREAS-45P	25	142					
OREAS-45P	20	132					
Target Range - Lower Bound	18	125					
Upper Bound	26	157					
OREAS-45P							
OREAS-45P							
OREAS-45P							
Target Range - Lower Bound							
Upper Bound							
OREAS-45P				0.055	0.088	0.056	
OREAS-45P				0.054	0.076	0.054	
OREAS-45P				0.051	0.073	0.051	
OREAS-45P				0.051	0.077	0.050	
OREAS-45P				0.051	0.074	0.050	
Target Range - Lower Bound				0.050	0.066	0.050	
Upper Bound				0.060	0.086	0.060	
OXD73				0.412	<0.005	0.001	
OXD73				0.410	<0.005	0.001	
OXD73				0.433	<0.005	<0.001	
OXD73				0.404	0.005	<0.001	
OXD73				0.403	<0.005	0.001	
Target Range - Lower Bound							
Upper Bound							

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 6 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
STANDARDS															
OxP50															
Target Range - Lower Bound															
Upper Bound															
PD-1															8.13
Target Range - Lower Bound															7.93
Upper Bound															8.53
PGMS-17															
PGMS-17															
PGMS-17															
PGMS-17															
Target Range - Lower Bound															
Upper Bound															
PK2															
Target Range - Lower Bound															
Upper Bound															
SARM-16	5.20	0.16	15.65	4.52	0.68	0.03	0.02	0.01	0.01	61.1	0.06	0.08	0.67		
Target Range - Lower Bound	4.78	0.15	15.60	4.46	0.65	0.03	<0.01	<0.01	<0.01	60.3	0.06	0.06	0.65		
Upper Bound	5.30	0.19	17.25	4.95	0.73	0.05	0.03	0.02	0.02	66.7	0.09	0.08	0.73		
SARM-16															
SARM-16															
SARM-16															
Target Range - Lower Bound															
Upper Bound															
SL34															
Target Range - Lower Bound															
Upper Bound															
SL34															
Target Range - Lower Bound															
Upper Bound															
SRM88B	1.31	0.32	0.27	30.7	21.2	0.03	0.10	<0.01	0.02	<0.01	<0.01	0.01	<0.01		
Target Range - Lower Bound	1.06	0.31	0.25	28.4	19.95	0.02	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Upper Bound	1.20	0.36	0.30	31.5	22.1	0.04	0.12	0.02	0.02	0.02	0.02	0.02	0.02		

Comments: Low whole rock totals confirmed by re-analysis.



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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 6 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
OxP50															
Target Range - Lower Bound															
Upper Bound															
PD-1															
Target Range - Lower Bound															
Upper Bound															
PGMS-17															
PGMS-17															
PGMS-17															
PGMS-17															
Target Range - Lower Bound															
Upper Bound															
PK2															
Target Range - Lower Bound															
Upper Bound															
SARM-16															
Target Range - Lower Bound															
Upper Bound															
SARM-16	5850	8.7	10	0.14	1.31	0.97	0.38	49.3	1.22	0.4	0.30	7.4	0.15	0.4	5.0
SARM-16	4480	7.4	<10	0.07	0.99	0.68	0.28	25.1	0.94	0.7	0.25	5.8	0.12	0.3	4.3
SARM-16	5410	8.5	10	0.09	1.14	0.80	0.25	30.2	1.16	0.7	0.26	6.3	0.12	0.4	4.5
Target Range - Lower Bound															
Upper Bound															
SL34															
Target Range - Lower Bound															
Upper Bound															
SL34															
Target Range - Lower Bound															
Upper Bound															
SRM88B															
Target Range - Lower Bound															
Upper Bound															

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 6 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
STANDARDS																
OxP50																
Target Range - Lower Bound																
Upper Bound																
PD-1																
Target Range - Lower Bound																
Upper Bound																
PGMS-17																
PGMS-17																
PGMS-17																
PGMS-17																
Target Range - Lower Bound																
Upper Bound																
PK2																
Target Range - Lower Bound																
Upper Bound																
SARM-16																
Target Range - Lower Bound																
Upper Bound																
SARM-16		1.15	0.9	0.95	<1	608	<0.1	0.19	0.64	<0.5	0.15	0.36	10	6	12.5	0.85
SARM-16		0.94	0.8	0.73	<1	508	0.5	0.13	0.56	<0.5	0.07	0.34	11	4	10.4	0.71
SARM-16		0.99	1.0	0.86	<1	560	0.4	0.14	0.54	<0.5	0.03	0.33	7	6	11.5	0.76
Target Range - Lower Bound																
Upper Bound																
SL34																
Target Range - Lower Bound																
Upper Bound																
SL34																
Target Range - Lower Bound																
Upper Bound																
SRM88B																
Target Range - Lower Bound																
Upper Bound																

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 6 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1
STANDARDS																
OxP50																
Target Range - Lower Bound																
Upper Bound																
PD-1																
Target Range - Lower Bound																
Upper Bound																
PGMS-17																
PGMS-17																
PGMS-17																
PGMS-17																
Target Range - Lower Bound																
Upper Bound																
PK2																
Target Range - Lower Bound																
Upper Bound																
SARM-16																
Target Range - Lower Bound																
Upper Bound																
SARM-16		24														
SARM-16		9														
SARM-16		11														
Target Range - Lower Bound																
Upper Bound																
SL34																
Target Range - Lower Bound																
Upper Bound																
SL34																
Target Range - Lower Bound																
Upper Bound																
SRM88B																
Target Range - Lower Bound																
Upper Bound																

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 6 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
Sample Description							
STANDARDS							
OxP50							15.15
Target Range - Lower Bound							13.80
Upper Bound							16.00
PD-1							
Target Range - Lower Bound							
Upper Bound							
PGMS-17				0.951	1.055	4.54	
PGMS-17				0.953	1.010	4.54	
PGMS-17				0.902	0.981	4.31	
PGMS-17				0.868	1.045	4.33	
Target Range - Lower Bound				0.861	0.923	4.00	
Upper Bound				0.993	1.075	4.60	
PK2				4.93	4.80	5.65	
Target Range - Lower Bound				4.45	4.41	5.50	
Upper Bound				5.12	5.09	6.33	
SARM-16							
Target Range - Lower Bound							
Upper Bound							
SARM-16							
SARM-16							
SARM-16							
Target Range - Lower Bound							
Upper Bound							
SL34							5.88
Target Range - Lower Bound							5.43
Upper Bound							6.36
SL34				5.88	<0.005	0.002	
Target Range - Lower Bound				5.48			
Upper Bound				6.31			
SRM88B							
Target Range - Lower Bound							
Upper Bound							

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 7 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
STANDARDS															
SRM88B	1.22	0.34	0.28	30.0	21.7	0.05	0.10	<0.01	0.02	0.01	0.03	0.01	<0.01		
SRM88B															
SRM88B															
Target Range - Lower Bound															
Upper Bound															
ST-252															
Target Range - Lower Bound															
Upper Bound															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
Target Range - Lower Bound															
Upper Bound															
SY-4	52.1	20.1	6.02	7.82	0.48	7.20	1.57	<0.01	0.28	0.11	0.15	0.14	0.04		
SY-4	51.8	20.5	6.11	8.05	0.50	7.22	1.61	<0.01	0.29	0.11	0.12	0.15	0.04		
SY-4	50.1	20.6	6.17	8.31	0.50	7.12	1.62	<0.01	0.30	0.11	0.11	0.14	0.04		
SY-4	49.8	20.6	6.16	7.95	0.48	7.08	1.62	<0.01	0.28	0.11	0.14	0.15	0.04		
SY-4	51.1	20.7	6.00	8.09	0.49	7.08	1.58	<0.01	0.28	0.10	0.12	0.15	0.04		
Target Range - Lower Bound	47.4	19.65	5.89	7.64	0.47	6.74	1.57	<0.01	0.26	0.09	0.11	0.12	0.03		
Upper Bound	52.4	21.7	6.53	8.46	0.54	7.47	1.75	0.02	0.31	0.12	0.15	0.16	0.05		
SY-4	51.0	20.5	6.05	7.76	0.49	7.41	1.60	<0.01	0.29	0.11	0.10	0.15	0.04		
SY-4															
SY-4	50.9	21.0	6.04	7.72	0.51	7.20	1.64	<0.01	0.29	0.11	0.11	0.16	0.04		
SY-4	50.9	20.3	6.01	7.78	0.52	7.48	1.69	<0.01	0.29	0.11	0.12	0.16	0.04		
SY-4	50.8	20.5	5.83	7.83	0.49	7.28	1.57	<0.01	0.28	0.11	0.14	0.15	0.04		
SY-4	52.4	20.3	6.08	7.84	0.50	7.33	1.58	<0.01	0.29	0.11	0.12	0.15	0.04		
SY-4	50.4	21.0	6.11	7.96	0.51	7.09	1.60	<0.01	0.28	0.11	0.13	0.15	0.04		
Target Range - Lower Bound	47.4	19.65	5.89	7.64	0.47	6.74	1.57	<0.01	0.26	0.09	0.11	0.12	0.03		
Upper Bound	52.4	21.7	6.53	8.46	0.54	7.47	1.75	0.02	0.31	0.12	0.15	0.16	0.05		

Comments: Low whole rock totals confirmed by re-analysis.



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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 7 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
STANDARDS															
SRM88B	5.6	3.7	<10	0.14	0.61	0.43	0.13	0.4	0.64	0.2	0.15	5.0	0.04	0.3	3.5
SRM88B	4.2	3.1	<10	0.11	0.52	0.36	0.10	0.4	0.53	0.2	0.12	4.1	0.04	0.3	2.8
SRM88B	5.2	3.8	<10	0.12	0.62	0.43	0.11	0.4	0.63	0.2	0.14	4.9	0.04	0.3	3.2
Target Range - Lower Bound															
Upper Bound															
ST-252															
Target Range - Lower Bound															
Upper Bound															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
Target Range - Lower Bound															
Upper Bound															
SY-4															
SY-4															
SY-4															
SY-4															
SY-4															
Target Range - Lower Bound															
Upper Bound															
SY-4	317	119.0	30	1.44	18.90	15.10	2.11	37.8	14.10	11.0	4.52	55.3	2.21	13.5	57.8
SY-4	335	123.5	10	1.41	18.40	14.35	2.09	32.5	13.70	11.0	4.51	58.5	2.19	13.4	58.9
SY-4	313	117.0	10	1.36	19.05	15.10	2.11	36.1	15.20	9.8	4.54	55.9	2.17	13.8	56.0
SY-4	351	129.5	10	1.62	19.15	15.45	2.12	38.4	14.60	11.8	4.62	61.1	2.20	13.5	61.2
SY-4	316	110.5	10	1.34	18.95	15.00	2.16	35.0	14.40	10.0	3.95	54.1	1.95	12.7	57.4
SY-4	341	126.0	20	1.39	19.85	15.20	2.17	38.5	15.05	11.8	4.74	57.7	2.17	15.8	58.1
SY-4	362	132.0	20	1.59	19.90	15.55	2.18	36.3	15.15	11.6	4.69	62.8	2.30	13.4	62.2
Target Range - Lower Bound	306	109.5	<10	1.34	16.35	12.75	1.77	31.4	12.55	9.3	3.86	51.7	1.88	11.5	51.2
Upper Bound	375	134.5	20	1.66	20.1	15.65	2.23	38.6	15.45	11.9	4.74	64.3	2.32	14.5	62.8

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 7 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
Sample Description	STANDARDS														
SRM88B	0.83	2.9	0.55	<1	64.7	<0.1	0.09	0.28	<0.5	0.05	0.12	<5	1	7.8	0.32
SRM88B	0.65	2.6	0.46	<1	57.8	0.1	0.08	0.24	<0.5	0.04	0.12	<5	1	7.0	0.26
SRM88B	0.82	2.9	0.51	<1	64.4	0.1	0.08	0.27	<0.5	0.03	0.12	<5	1	7.9	0.31
Target Range - Lower Bound															
Upper Bound															
ST-252															
Target Range - Lower Bound															
Upper Bound															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
STSD-4															
Target Range - Lower Bound															
Upper Bound															
SY-4															
SY-4															
SY-4															
SY-4															
Target Range - Lower Bound															
Upper Bound															
SY-4	15.10	54.0	12.90	7	1245	0.9	2.83	1.22	<0.5	2.38	0.68	<5	<1	117.5	15.05
SY-4	15.60	51.6	13.00	7	1155	0.8	2.79	1.21	<0.5	2.34	0.74	<5	1	114.0	14.95
SY-4	14.75	50.3	12.05	7	1105	0.9	2.86	1.16	<0.5	2.29	0.82	<5	<1	108.5	15.25
SY-4	15.30	56.1	13.95	8	1245	1.1	2.83	1.22	<0.5	2.38	0.82	8	1	124.0	15.40
SY-4	13.85	52.5	12.55	7	1290	0.8	2.43	1.24	<0.5	2.13	0.81	5	1	113.5	15.05
SY-4	15.25	52.2	12.70	7	1180	1.1	2.79	1.33	<0.5	2.38	1.23	<5	1	120.0	15.60
SY-4	16.45	56.2	13.30	8	1220	0.9	2.97	1.31	<0.5	2.46	0.72	5	<1	119.5	15.90
Target Range - Lower Bound	13.45	49.3	11.40	6	1070	0.7	2.33	1.21	<0.5	2.06	0.67	<5	<1	106.5	13.30
Upper Bound	16.55	60.7	14.00	10	1310	1.1	2.87	1.59	1.0	2.54	0.93	10	2	131.5	16.30

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 7 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
Sample Description	2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
STANDARDS															
SRM88B	7														
SRM88B	5														
SRM88B	6														
Target Range - Lower Bound															
Upper Bound															
ST-252															
Target Range - Lower Bound															
Upper Bound															
STSD-4									11.40						
STSD-4									11.20						
STSD-4									11.10						
STSD-4									11.50						
STSD-4									10.80						
STSD-4									11.10						
STSD-4									11.25						
STSD-4									11.30						
STSD-4									11.40						
STSD-4									11.40						
STSD-4									11.70						
STSD-4									11.30						
STSD-4									11.50						
Target Range - Lower Bound									10.45						
Upper Bound									12.75						
SY-4															
SY-4															
SY-4															
SY-4															
SY-4															
Target Range - Lower Bound															
Upper Bound															
SY-4	540														
SY-4	572														
SY-4	539														
SY-4	566														
SY-4	520														
SY-4	577														
SY-4	566														
Target Range - Lower Bound	481														
Upper Bound	593														

Comments: Low whole rock totals confirmed by re-analysis.



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HIBBING MN 55746

Page: 7 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
STANDARDS								
SRM88B								
SRM88B								
SRM88B								
Target Range - Lower Bound								
Upper Bound								
ST-252					0.053	<0.005	<0.001	
Target Range - Lower Bound					0.054	<0.005	<0.001	
Upper Bound					0.064	0.010	0.002	
STSD-4								
STSD-4								
STSD-4								
STSD-4								
STSD-4								
STSD-4								
STSD-4								
STSD-4								
STSD-4								
STSD-4								
STSD-4								
Target Range - Lower Bound								
Upper Bound								
SY-4								
SY-4								
SY-4								
SY-4								
Target Range - Lower Bound								
Upper Bound								
SY-4								
SY-4								
SY-4								
SY-4								
SY-4								
SY-4								
Target Range - Lower Bound								
Upper Bound								

Comments: Low whole rock totals confirmed by re-analysis.



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HIBBING MN 55746

Page: 8 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
STANDARDS															
UTS-1															1.04
UTS-1															1.02
UTS-1															0.98
UTS-1															1.01
UTS-1															0.99
UTS-1															1.00
UTS-1															0.99
UTS-1															0.97
Target Range - Lower Bound															0.95
Upper Bound															1.05
UTS-2															3.26
Target Range - Lower Bound															3.11
Upper Bound															3.35
BLANKS															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															<0.01
BLANK															<0.01
BLANK															<0.01
BLANK															<0.01
BLANK															0.01
BLANK															0.01
Target Range - Lower Bound															<0.01
Upper Bound															0.02

Comments: Low whole rock totals confirmed by re-analysis.



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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 8 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
UTS-1	<div>STANDARDS</div>														
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
Target Range - Lower Bound															
Upper Bound															
UTS-2															
Target Range - Lower Bound															
Upper Bound															
BLANK	<div>BLANKS</div>														
Target Range - Lower Bound															
Upper Bound															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															

Comments: Low whole rock totals confirmed by re-analysis.



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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 8 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
Sample Description															
UTS-1	<div>STANDARDS</div>														
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
Target Range - Lower Bound															
Upper Bound															
UTS-2															
Target Range - Lower Bound															
Upper Bound															
BLANK	<div>BLANKS</div>														
Target Range - Lower Bound															
Upper Bound															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 8 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
Sample Description	2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
UTS-1	STANDARDS														
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
UTS-1															
Target Range - Lower Bound															
Upper Bound															
UTS-2															
Target Range - Lower Bound															
Upper Bound															
BLANK	BLANKS														
Target Range - Lower Bound															
Upper Bound															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 8 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
STANDARDS								
UTS-1								
UTS-1								
UTS-1								
UTS-1								
UTS-1								
UTS-1								
UTS-1								
UTS-1								
Target Range - Lower Bound								
Upper Bound								
UTS-2								
Target Range - Lower Bound								
Upper Bound								
BLANKS								
BLANK				1				
Target Range - Lower Bound				<1				
Upper Bound				2				
BLANK							<0.05	
Target Range - Lower Bound							<0.05	
Upper Bound							0.10	
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES
1525 3RD AVENUE EAST
HIBBING MN 55746

Page: 9 - A
Total # Pages: 17 (A - E)
Finalized Date: 28-MAY-2010
Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
BLANK	BLANKS														
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
BLANK	<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	<0.01
BLANK	<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	<0.01
BLANK	<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	<0.01
BLANK	<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	<0.01
BLANK	<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	<0.01
Target Range - Lower Bound	<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	<0.01
Upper Bound	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
BLANK	BLANKS														
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<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	<0.01
BLANK	<0.01	0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BLANK	<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	<0.01
BLANK	<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	<0.01
BLANK	<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	<0.01
BLANK	<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	<0.01
BLANK	<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	<0.01
Target Range - Lower Bound	<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	<0.01
Upper Bound	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Comments: Low whole rock totals confirmed by re-analysis.



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Page: 9 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
BLANK	BLANKS														
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<0.5	<0.5	10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5	<0.01	<0.2	<0.1
BLANK	<0.5	<0.5	<10	0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	0.01	<0.5	0.01	<0.2	<0.1
BLANK	<0.5	<0.5	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5	<0.01	<0.2	<0.1
BLANK	<0.5	<0.5	<10	0.01	<0.05	<0.03	<0.03	<0.1	<0.05	0.2	<0.01	<0.5	<0.01	<0.2	<0.1
BLANK	<0.5	<0.5	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5	<0.01	<0.2	<0.1
BLANK	<0.5	<0.5	<10	0.01	<0.05	<0.03	<0.03	<0.1	<0.05	0.2	0.01	<0.5	0.01	<0.2	<0.1
BLANK	<0.5	<0.5	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5	<0.01	<0.2	<0.1
Target Range - Lower Bound	<0.5	<0.5	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5	<0.01	<0.2	<0.1
Upper Bound	1.0	1.0	20	0.02	0.10	0.06	0.06	0.2	0.10	0.4	0.02	1.0	0.02	0.4	0.2

Comments: Low whole rock totals confirmed by re-analysis.



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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 9 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
Sample Description															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<0.03	<0.2	<0.03	<1	0.4	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5	<1	<0.5	<0.03
BLANK	<0.03	<0.2	<0.03	<1	0.2	<0.1	<0.01	<0.05	<0.5	0.01	<0.05	<5	1	<0.5	<0.03
BLANK	<0.03	<0.2	<0.03	<1	0.2	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5	<1	<0.5	<0.03
BLANK	<0.03	<0.2	<0.03	<1	0.2	0.1	<0.01	<0.05	<0.5	0.01	<0.05	<5	1	<0.5	<0.03
BLANK	<0.03	<0.2	<0.03	<1	0.2	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5	1	<0.5	<0.03
BLANK	<0.03	<0.2	<0.03	<1	<0.1	0.1	0.01	<0.05	<0.5	<0.01	<0.05	<5	1	<0.5	<0.03
BLANK	<0.03	<0.2	<0.03	<1	<0.1	0.1	0.01	<0.05	<0.5	<0.01	<0.05	<5	1	<0.5	<0.03
Target Range - Lower Bound	<0.03	<0.2	<0.03	<1	<0.1	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5	<1	<0.5	<0.03
Upper Bound	0.06	0.4	0.06	2	0.2	0.2	0.02	0.10	1.0	0.02	0.10	10	2	1.0	0.06

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 9 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1
Sample Description															
BLANK										<0.5	<0.5	<1	<1	<1	<1
BLANK										<0.5	<0.5	1	<1	<1	<1
BLANK										<0.5	<0.5	<1	<1	<1	<1
BLANK										<0.5	<0.5	<1	<1	<1	<1
BLANK										<0.5	<0.5	<1	<1	<1	1
BLANK										<0.5	<0.5	1	<1	<1	<1
BLANK										<0.5	<0.5	<1	<1	<1	<1
BLANK										<0.5	<0.5	<1	<1	<1	<1
Target Range - Lower Bound										<0.5	<0.5	<1	<1	<1	<1
Upper Bound										1.0	1.0	2	2	2	2
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK		<0.1	<0.01	<0.005	<0.05	<0.2	<0.01								
BLANK		<0.1	<0.01	<0.005	<0.05	<0.2	<0.01								
BLANK		<0.1	<0.01	<0.005	<0.05	<0.2	<0.01								
BLANK		<0.1	<0.01	<0.005	<0.05	<0.2	<0.01								
BLANK		<0.1	<0.01	<0.005	<0.05	<0.2	<0.01								
BLANK		<0.1	<0.01	<0.005	<0.05	<0.2	<0.01								
BLANK		<0.1	0.02	0.005	<0.05	<0.2	0.01								
Target Range - Lower Bound		<0.1	<0.01	<0.005	<0.05	<0.2	<0.01								
Upper Bound		0.2	0.02	0.010	0.10	0.4	0.02								
BLANK	<2														
BLANK	3														
BLANK	2														
BLANK	3														
BLANK	4														
BLANK	2														
BLANK	<2														
Target Range - Lower Bound	<2														
Upper Bound	4														

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 9 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

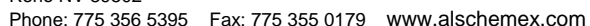
Account: MINSTA

Project: 373

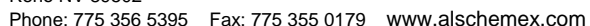
QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method	ME-4ACD81	ME-4ACD81	Ag-OG62	PGM-ICP23	PGM-ICP23	PGM-ICP23	Au-GRA21
	Analyte	Pb	Zn	Ag	Au	Pt	Pd	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	2	2	1	0.001	0.005	0.001	0.05
BLANKS								
BLANK		<2	<2					
BLANK		<2	<2					
BLANK		<2	<2					
BLANK		<2	<2					
BLANK		<2	<2					
BLANK		<2	<2					
BLANK		<2	<2					
BLANK		<2	<2					
Target Range - Lower Bound		<2	<2					
Upper Bound		4	4					
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
BLANK								
Target Range - Lower Bound								
Upper Bound								

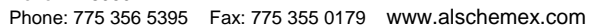
Comments: Low whole rock totals confirmed by re-analysis.



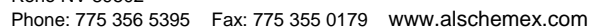
Comments: Low whole rock totals confirmed by re-analysis.



Comments: Low whole rock totals confirmed by re-analysis.



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Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 10 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
Sample Description							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK				0.001	<0.005	<0.001	
BLANK				<0.001	<0.005	0.002	
BLANK				0.001	<0.005	<0.001	
BLANK				<0.001	<0.005	<0.001	
BLANK				<0.001	<0.005	<0.001	
BLANK				<0.001	<0.005	<0.001	
Target Range - Lower Bound				<0.001	<0.005	<0.001	
Upper Bound				0.002	0.010	0.002	
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
BLANK							
Target Range - Lower Bound							
Upper Bound							

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 11 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
P37300073 DUP Target Range - Lower Bound Upper Bound														0.42 0.41 0.39 0.44	0.14 0.15 0.13 0.16
P37300079 DUP Target Range - Lower Bound Upper Bound															
P37300080 DUP Target Range - Lower Bound Upper Bound															

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 11 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
P37300073 DUP Target Range - Lower Bound Upper Bound															
P37300079 DUP Target Range - Lower Bound Upper Bound															
P37300080 DUP Target Range - Lower Bound Upper Bound															

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES
1525 3RD AVENUE EAST
HIBBING MN 55746

Page: 11 - C
Total # Pages: 17 (A - E)
Finalized Date: 28-MAY-2010
Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
P37300073 DUP Target Range - Lower Bound Upper Bound																
P37300079 DUP Target Range - Lower Bound Upper Bound																
P37300080 DUP Target Range - Lower Bound Upper Bound																

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 11 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

	Method Analyte Units LOR	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1
Sample Description																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES 0.90 0.90 0.85 0.96														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
P37300073 DUP Target Range - Lower Bound Upper Bound		2.6 2.6 2.4 2.8	1.29 1.26 1.20 1.35	0.184 0.172 0.160 0.196	20.2 20.4 18.75 21.9	0.3 0.3 <0.2 0.4	12.45 14.65 12.85 14.25									
P37300079 DUP Target Range - Lower Bound Upper Bound		3.60 4.10 3.65 4.05														
P37300080 DUP Target Range - Lower Bound Upper Bound																

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 11 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								4.58 5.13 4.56 5.15
ORIGINAL DUP Target Range - Lower Bound Upper Bound								9.25 9.69 8.95 9.99
ORIGINAL DUP Target Range - Lower Bound Upper Bound					0.594 0.658 0.594 0.658	0.007 0.010 <0.005 0.010	<0.001 0.001 <0.001 0.002	
ORIGINAL DUP Target Range - Lower Bound Upper Bound					0.025 0.021 0.021 0.025	<0.005 0.015 <0.005 0.016	0.012 0.010 0.009 0.013	
P37300073 DUP Target Range - Lower Bound Upper Bound								
P37300079 DUP Target Range - Lower Bound Upper Bound								
P37300080 DUP Target Range - Lower Bound Upper Bound					0.008 0.007 0.006 0.009	<0.005 <0.005 <0.005 0.010	0.001 <0.001 <0.001 0.002	

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 12 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
P37300095		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	0.01
DUP																
Target Range - Lower Bound		66.5	12.70	2.22	2.78	1.21	5.41	1.47	<0.01	0.22	0.04	0.19	0.09	0.09		
Upper Bound		66.6	12.70	2.30	2.85	1.22	5.31	1.45	0.01	0.22	0.04	0.27	0.08	0.10		
		65.5	12.60	2.22	2.76	1.19	5.31	1.44	<0.01	0.21	0.03	0.18	0.08	0.08		
		68.9	13.25	2.36	2.92	1.27	5.60	1.54	0.02	0.24	0.05	0.21	0.10	0.11		
P37300100																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300105																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300109															0.68	0.17
DUP															0.67	0.18
Target Range - Lower Bound															0.65	0.16
Upper Bound															0.70	0.19
P37300115																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300129		61.2	15.40	2.58	4.30	1.96	5.17	2.28	0.01	0.28	0.06	0.20	0.09	0.31		
DUP		61.4	15.45	2.59	4.26	1.95	5.22	2.29	0.01	0.27	0.06	0.21	0.09	0.31		
Target Range - Lower Bound		59.8	15.05	2.51	4.16	1.90	5.06	2.22	<0.01	0.26	0.05	0.19	0.08	0.29		
Upper Bound		62.8	15.80	2.66	4.40	2.01	5.33	2.35	0.02	0.29	0.07	0.22	0.10	0.33		
P37300136																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300141																
DUP																
Target Range - Lower Bound																
Upper Bound																

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 12 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
DUPLICATES																
P37300095		872	59.0	20	1.88	1.17	0.51	1.07	15.0	3.31	2.4	0.19	27.7	0.05	3.4	29.3
DUP		846	57.5	20	1.79	1.27	0.56	1.06	15.7	3.30	2.4	0.18	27.1	0.05	3.4	28.3
Target Range - Lower Bound		816	54.8	<10	1.73	1.11	0.48	0.98	14.5	3.09	2.1	0.17	25.5	0.04	3.0	27.3
Upper Bound		902	61.7	30	1.94	1.33	0.59	1.15	16.2	3.52	2.7	0.20	29.3	0.06	3.8	30.3
P37300100																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300105																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300109																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300115																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300129		2500	73.3	30	2.88	1.57	0.72	1.48	17.7	4.36	2.8	0.25	34.2	0.07	4.3	35.9
DUP		2360	68.1	30	2.76	1.53	0.68	1.27	16.7	4.13	2.8	0.23	31.3	0.06	4.2	34.3
Target Range - Lower Bound		2310	66.7	20	2.67	1.42	0.64	1.28	16.2	3.98	2.5	0.22	30.6	0.05	3.8	33.2
Upper Bound		2550	74.7	40	2.97	1.68	0.77	1.47	18.2	4.51	3.1	0.26	34.9	0.08	4.7	37.0
P37300136																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300141																
DUP																
Target Range - Lower Bound																
Upper Bound																

Comments: Low whole rock totals confirmed by re-analysis.



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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 12 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tl ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
DUPLICATES																
P37300095		7.53	47.3	4.89	1	749	0.2	0.34	4.97	<0.5	0.06	3.93	32	6	5.2	0.41
DUP		7.31	46.3	4.57	<1	737	0.2	0.34	4.81	<0.5	0.05	3.74	32	5	5.3	0.40
Target Range - Lower Bound		7.02	44.3	4.46	<1	706	<0.1	0.31	4.60	<0.5	0.04	3.59	25	4	4.5	0.35
Upper Bound		7.82	49.3	5.00	2	780	0.3	0.37	5.18	1.0	0.07	4.08	39	7	6.0	0.46
P37300100																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300105																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300109																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300115																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300129		9.36	72.8	5.85	1	633	0.2	0.43	4.69	<0.5	0.07	1.51	39	5	6.8	0.52
DUP		8.53	67.7	5.58	1	594	0.2	0.38	4.57	<0.5	0.06	1.47	37	5	6.2	0.47
Target Range - Lower Bound		8.47	66.5	5.40	<1	583	<0.1	0.37	4.35	<0.5	0.05	1.37	31	4	5.7	0.44
Upper Bound		9.42	74.0	6.03	2	644	0.3	0.44	4.91	1.0	0.08	1.61	45	6	7.3	0.55
P37300136																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300141																
DUP																
Target Range - Lower Bound																
Upper Bound																

Comments: Low whole rock totals confirmed by re-analysis.



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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 12 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
		2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
P37300095		86							4.80	97.7						
DUP		88							4.50	97.6						
Target Range - Lower Bound		81							4.41	95.2						
Upper Bound		93							4.89	100.0						
P37300100																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300105											<0.5	<0.5	7	5	2	17
DUP											<0.5	<0.5	6	5	1	15
Target Range - Lower Bound											<0.5	<0.5	5	4	<1	14
Upper Bound											1.0	1.0	8	6	2	18
P37300109			0.4	0.04	0.008	0.48	<0.2	0.04								
DUP			0.3	0.04	<0.005	0.43	<0.2	0.04								
Target Range - Lower Bound			0.2	0.03	<0.005	0.37	<0.2	0.03								
Upper Bound			0.5	0.05	0.010	0.54	0.4	0.05								
P37300115									5.18							
DUP									5.28							
Target Range - Lower Bound									4.96							
Upper Bound									5.50							
P37300129		114														
DUP		109														
Target Range - Lower Bound		104														
Upper Bound		119														
P37300136																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300141											<0.5	<0.5	9	9	1	33
DUP											<0.5	<0.5	9	9	<1	31
Target Range - Lower Bound											<0.5	<0.5	8	8	<1	29
Upper Bound											1.0	1.0	10	10	2	35

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 12 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
P37300095 DUP Target Range - Lower Bound Upper Bound								
P37300100 DUP Target Range - Lower Bound Upper Bound					0.067 0.068 0.063 0.072	<0.005 <0.005 <0.005 0.010	0.001 0.001 <0.001 0.002	
P37300105 DUP Target Range - Lower Bound Upper Bound		29 27 25 31	48 49 44 53					
P37300109 DUP Target Range - Lower Bound Upper Bound								
P37300115 DUP Target Range - Lower Bound Upper Bound								
P37300129 DUP Target Range - Lower Bound Upper Bound								
P37300136 DUP Target Range - Lower Bound Upper Bound					0.121 0.105 0.106 0.120	<0.005 <0.005 <0.005 0.010	0.001 0.002 <0.001 0.002	
P37300141 DUP Target Range - Lower Bound Upper Bound		18 19 16 21	69 67 63 73					

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 13 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
		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	0.01
P37300145 DUP															0.73	0.32
Target Range - Lower Bound															0.72	0.33
Upper Bound															0.70	0.31
															0.75	0.34
P37300151 DUP																
Target Range - Lower Bound																
Upper Bound																
P37300164 DUP		69.1	12.70	2.06	3.70	0.82	6.60	0.54	<0.01	0.18	0.06	0.11	0.06	0.05		
Target Range - Lower Bound		69.2	12.65	2.08	3.71	0.82	6.65	0.54	<0.01	0.18	0.06	0.11	0.06	0.05		
Upper Bound		67.4	12.35	2.01	3.60	0.79	6.45	0.52	<0.01	0.17	0.05	0.10	0.05	0.04		
		70.9	13.00	2.13	3.81	0.85	6.80	0.56	0.02	0.19	0.07	0.12	0.07	0.06		
P37300176 DUP		50.0	0.54	47.0	1.58	1.52	0.05	0.03	<0.01	0.02	0.04	0.18	<0.01	<0.01		
Target Range - Lower Bound		48.1	0.51	44.7	1.50	1.48	0.05	0.04	0.01	0.02	0.04	0.26	<0.01	<0.01		
Upper Bound		47.8	0.50	44.7	1.49	1.45	0.04	0.02	<0.01	<0.01	0.03	0.20	<0.01	<0.01		
		50.3	0.55	47.0	1.59	1.55	0.06	0.05	0.02	0.03	0.05	0.24	0.02	0.02		
P37300177 DUP																
Target Range - Lower Bound																
Upper Bound																
P37300181 DUP															0.32	0.10
Target Range - Lower Bound															0.32	0.09
Upper Bound															0.30	0.08
															0.34	0.11
P37300187 DUP																
Target Range - Lower Bound																
Upper Bound																
P37300198 DUP		81.6	0.06	13.00	0.21	0.62	<0.01	0.06	<0.01	0.01	0.22	0.09	<0.01	0.01		
Target Range - Lower Bound		84.0	0.19	12.55	0.27	0.66	0.01	0.06	<0.01	0.01	0.24	0.03	<0.01	0.01		
Upper Bound		80.7	0.11	12.45	0.22	0.61	<0.01	0.05	<0.01	<0.01	0.21	0.05	<0.01	<0.01		
		84.9	0.14	13.10	0.26	0.67	0.02	0.07	0.02	0.02	0.25	0.07	0.02	0.02		

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 13 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
P37300145 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P37300151 DUP Target Range - Lower Bound Upper Bound																
P37300164 DUP Target Range - Lower Bound Upper Bound		452 457 431 478	43.4 45.9 41.9 47.4	30 30 20 40	0.89 0.94 0.86 0.97	1.12 1.12 1.01 1.23	0.62 0.57 0.54 0.65	0.79 0.81 0.73 0.87	19.0 19.6 18.2 20.4	2.38 2.53 2.28 2.63	2.7 2.6 2.3 3.0	0.21 0.21 0.19 0.23	20.6 21.9 19.7 22.8	0.09 0.08 0.07 0.10	2.6 2.8 2.4 3.0	21.0 21.6 20.1 22.5
P37300176 DUP Target Range - Lower Bound Upper Bound																
P37300177 DUP Target Range - Lower Bound Upper Bound																
P37300181 DUP Target Range - Lower Bound Upper Bound																
P37300187 DUP Target Range - Lower Bound Upper Bound																
P37300198 DUP Target Range - Lower Bound Upper Bound		54.1 54.9 51.3 57.7	4.3 4.3 3.6 5.0	30 20 <10 40	1.73 1.80 1.67 1.86	0.79 0.76 0.69 0.86	0.50 0.48 0.44 0.54	0.63 0.62 0.56 0.69	1.0 1.0 0.9 1.2	0.75 0.68 0.63 0.80	<0.2 <0.2 <0.2 0.4	0.14 0.14 0.12 0.16	2.0 2.0 1.4 2.6	0.08 0.07 0.06 0.09	0.2 0.2 <0.2 0.4	2.6 2.5 2.3 2.8

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 13 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
P37300145 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P37300151 DUP Target Range - Lower Bound Upper Bound																
P37300164 DUP Target Range - Lower Bound Upper Bound		5.25 5.37 5.01 5.61	18.1 18.4 17.1 19.4	3.42 3.59 3.30 3.71	<1 <1 <1 2	498 512 480 530	0.2 0.3 <0.1 0.4	0.27 0.27 0.25 0.29	4.33 4.38 4.09 4.62	<0.5 <0.5 <0.5 1.0	0.09 0.06 0.06 0.09	3.68 3.70 3.46 3.92	30 36 26 40	4 17 9 12	6.1 6.1 5.3 6.9	0.49 0.48 0.43 0.54
P37300176 DUP Target Range - Lower Bound Upper Bound																
P37300177 DUP Target Range - Lower Bound Upper Bound																
P37300181 DUP Target Range - Lower Bound Upper Bound																
P37300187 DUP Target Range - Lower Bound Upper Bound																
P37300198 DUP Target Range - Lower Bound Upper Bound		0.55 0.57 0.50 0.62	2.6 2.5 2.2 2.9	0.60 0.62 0.55 0.67	<1 <1 <1 2	3.3 3.3 3.0 3.6	<0.1 <0.1 <0.1 0.2	0.10 0.10 0.09 0.12	<0.05 <0.05 <0.05 0.10	<0.5 <0.5 <0.5 1.0	0.08 0.07 0.06 0.09	<0.05 <0.05 <0.05 0.10	7 6 <5 10	1 1 <1 2	4.3 4.3 3.6 5.0	0.50 0.51 0.45 0.56

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 13 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
		2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
DUPLICATES																
P37300145			0.7	0.90	0.019	0.31	0.3	0.84								
DUP			0.7	0.86	0.019	0.31	0.3	0.83								
Target Range - Lower Bound			0.6	0.83	0.013	0.24	<0.2	0.78								
Upper Bound			0.8	0.93	0.025	0.38	0.4	0.89								
P37300151									0.99							
DUP									0.90							
Target Range - Lower Bound									0.89							
Upper Bound									1.00							
P37300164		85														
DUP		77														
Target Range - Lower Bound		75														
Upper Bound		87														
P37300176																
DUP																
Target Range - Lower Bound																
Upper Bound																
P37300177											0.7	2.5	<1	47	1	1
DUP											0.6	2.6	<1	46	1	3
Target Range - Lower Bound											<0.5	1.9	<1	43	<1	<1
Upper Bound											1.0	3.2	2	50	2	3
P37300181			0.7	0.08	<0.005	0.09	0.4	0.04								
DUP			0.9	0.09	0.008	0.11	0.5	0.07								
Target Range - Lower Bound			0.7	0.07	<0.005	<0.05	<0.2	0.04								
Upper Bound			0.9	0.10	0.010	0.16	0.7	0.07								
P37300187									1.87							
DUP									1.99							
Target Range - Lower Bound									1.82							
Upper Bound									2.04							
P37300198		3														
DUP		3														
Target Range - Lower Bound		<2														
Upper Bound		4														

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 13 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
P37300145 DUP Target Range - Lower Bound Upper Bound		DUPLICATES						
P37300151 DUP Target Range - Lower Bound Upper Bound								
P37300164 DUP Target Range - Lower Bound Upper Bound								
P37300176 DUP Target Range - Lower Bound Upper Bound		<div><div><0.001</div><div><0.005</div><div>0.001</div><div>0.001</div><div><0.005</div><div>0.003</div><div><0.001</div><div><0.005</div><div><0.001</div><div>0.002</div><div>0.010</div><div>0.003</div></div>						
P37300177 DUP Target Range - Lower Bound Upper Bound		<div>6</div> <div>6</div> <div>4</div> <div>8</div>	<div>168</div> <div>165</div> <div>156</div> <div>177</div>					
P37300181 DUP Target Range - Lower Bound Upper Bound								
P37300187 DUP Target Range - Lower Bound Upper Bound								
P37300198 DUP Target Range - Lower Bound Upper Bound								

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 14 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
P37300213 DUP Target Range - Lower Bound Upper Bound		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	0.01
DUPLICATES																
P37300217 DUP Target Range - Lower Bound Upper Bound															3.67 3.69 3.58 3.78	0.94 0.95 0.91 0.98
P37300232 DUP Target Range - Lower Bound Upper Bound																
P37300233 DUP Target Range - Lower Bound Upper Bound		63.5 63.0 61.7 64.8	11.95 11.85 11.60 12.20	7.73 7.66 7.49 7.90	5.93 5.90 5.76 6.07	0.39 0.39 0.37 0.41	1.02 1.00 0.97 1.05	1.25 1.23 1.20 1.28	<0.01 <0.01 <0.01 0.02	0.26 0.26 0.24 0.28	0.20 0.20 0.19 0.22	0.08 0.08 0.07 0.09	0.01 0.01 0.01 0.02	0.01 0.01 0.01 0.02		
P37300241 DUP Target Range - Lower Bound Upper Bound																
P37300253 DUP Target Range - Lower Bound Upper Bound																
P37300257 DUP Target Range - Lower Bound Upper Bound																
P37300258 DUP Target Range - Lower Bound Upper Bound															3.43 3.34 3.29 3.48	2.30 2.25 2.21 2.34

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 14 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
P37300213 DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
P37300217 DUP Target Range - Lower Bound Upper Bound															
P37300232 DUP Target Range - Lower Bound Upper Bound															
P37300233 DUP Target Range - Lower Bound Upper Bound	103.5 99.0 95.7 107.0	14.3 14.0 12.9 15.4	20 20 <10 30	1.02 0.98 0.94 1.06	0.85 0.85 0.76 0.94	0.48 0.44 0.41 0.51	0.43 0.44 0.38 0.49	14.2 14.4 13.5 15.1	1.20 1.24 1.11 1.33	2.3 2.2 1.9 2.6	0.16 0.17 0.15 0.18	7.1 6.9 6.2 7.9	0.06 0.05 0.04 0.07	2.5 2.5 2.2 2.8	5.9 6.0 5.6 6.3
P37300241 DUP Target Range - Lower Bound Upper Bound															
P37300253 DUP Target Range - Lower Bound Upper Bound															
P37300257 DUP Target Range - Lower Bound Upper Bound															
P37300258 DUP Target Range - Lower Bound Upper Bound															

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES
1525 3RD AVENUE EAST
HIBBING MN 55746

Page: 14 - C
Total # Pages: 17 (A - E)
Finalized Date: 28-MAY-2010
Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tl ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
P37300213 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P37300217 DUP Target Range - Lower Bound Upper Bound																
P37300232 DUP Target Range - Lower Bound Upper Bound																
P37300233 DUP Target Range - Lower Bound Upper Bound		1.61 1.60 1.49 1.72	25.1 25.3 23.7 26.7	1.13 1.15 1.05 1.23	<1 <1 <1 2	102.5 101.5 96.8 107.0	0.3 0.3 0.2 0.4	0.16 0.15 0.14 0.17	0.84 0.83 0.74 0.93	<0.5 <0.5 <0.5 1.0	0.03 0.04 0.02 0.05	0.24 0.23 0.17 0.30	31 29 24 37	1 2 <1 2	5.0 4.9 4.2 5.7	0.38 0.38 0.33 0.43
P37300241 DUP Target Range - Lower Bound Upper Bound																
P37300253 DUP Target Range - Lower Bound Upper Bound																
P37300257 DUP Target Range - Lower Bound Upper Bound																
P37300258 DUP Target Range - Lower Bound Upper Bound																

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 14 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
		2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
P37300213 DUP Target Range - Lower Bound Upper Bound		<div> <div>DUPLICATES</div> <div> <div><0.5</div> <div><0.5</div> <div><0.5</div> <div>1.0</div> </div> <div> <div><0.5</div> <div><0.5</div> <div><0.5</div> <div>1.0</div> </div> <div> <div>78</div> <div>71</div> <div>70</div> <div>79</div> </div> <div> <div>51</div> <div>42</div> <div>43</div> <div>50</div> </div> <div> <div><1</div> <div><1</div> <div><1</div> <div>2</div> </div> <div> <div>442</div> <div>430</div> <div>413</div> <div>459</div> </div> </div>														
P37300217 DUP Target Range - Lower Bound Upper Bound		25.0 24.1 23.2 25.9	0.02 0.03 <0.01 0.04	0.006 0.008 <0.005 0.010	4.86 5.39 4.69 5.56	0.6 0.5 0.3 0.8	0.99 1.01 0.94 1.06									
P37300232 DUP Target Range - Lower Bound Upper Bound																
P37300233 DUP Target Range - Lower Bound Upper Bound		86 83 78 91														
P37300241 DUP Target Range - Lower Bound Upper Bound									13.00 12.75 12.20 13.55							
P37300253 DUP Target Range - Lower Bound Upper Bound											0.7 0.9 <0.5 1.0	<0.5 <0.5 <0.5 1.0	42 41 38 45	202 191 186 207	1 1 <1 2	49 46 44 51
P37300257 DUP Target Range - Lower Bound Upper Bound																
P37300258 DUP Target Range - Lower Bound Upper Bound		1.7 1.6 1.5 1.8	0.33 0.24 0.26 0.31	<0.005 <0.005 <0.005 0.010	<0.05 <0.05 <0.05 0.10	3.6 3.6 3.2 4.0	1.71 1.69 1.61 1.80									

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 14 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
DUPLICATES								
P37300213		<2	161					
DUP		<2	151					
Target Range - Lower Bound		<2	146					
Upper Bound		4	166					
P37300217								
DUP								
Target Range - Lower Bound								
Upper Bound								
P37300232					0.504	<0.005	<0.001	
DUP					0.512	<0.005	<0.001	
Target Range - Lower Bound					0.482	<0.005	<0.001	
Upper Bound					0.534	0.010	0.002	
P37300233								
DUP								
Target Range - Lower Bound								
Upper Bound								
P37300241								
DUP								
Target Range - Lower Bound								
Upper Bound								
P37300253		<2	144					
DUP		<2	140					
Target Range - Lower Bound		<2	133					
Upper Bound		4	151					
P37300257					0.606	<0.005	<0.001	
DUP					0.633	<0.005	<0.001	
Target Range - Lower Bound					0.588	<0.005	<0.001	
Upper Bound					0.651	0.010	0.002	
P37300258								
DUP								
Target Range - Lower Bound								
Upper Bound								

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 15 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
P37300270 DUP Target Range - Lower Bound Upper Bound	DUPLICATES														11.85 12.25 11.75 12.35
P37300272 DUP Target Range - Lower Bound Upper Bound	35.3 35.2 34.7 36.5	4.66 4.62 4.60 4.86	20.1 20.1 20.0 21.1	10.65 10.65 10.55 11.15	5.51 5.53 5.51 5.81	0.01 <0.01 <0.01 0.02	0.09 0.09 0.08 0.11	0.01 0.01 <0.01 0.02	0.21 0.21 0.20 0.23	0.43 0.43 0.43 0.47	0.15 0.11 0.11 0.14	0.01 0.01 <0.01 0.02	0.01 0.01 <0.01 0.02		
P37300331 DUP Target Range - Lower Bound Upper Bound															
P37300333 DUP Target Range - Lower Bound Upper Bound															
P37300091dup DUP Target Range - Lower Bound Upper Bound															
P37300233dup DUP Target Range - Lower Bound Upper Bound															1.48 1.48 1.43 1.53
P37300340dup DUP Target Range - Lower Bound Upper Bound															0.06 0.06 0.05 0.07
ORIGINAL DUP Target Range - Lower Bound Upper Bound															

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 15 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
P37300270 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P37300272 DUP Target Range - Lower Bound Upper Bound		63.1 61.1 58.5 65.7	12.5 11.6 10.9 13.2	60 70 50 80	0.08 0.09 0.07 0.10	1.56 1.37 1.34 1.59	0.88 0.81 0.77 0.92	0.71 0.62 0.60 0.73	7.0 7.1 6.6 7.5	1.68 1.53 1.47 1.74	0.9 0.9 0.7 1.1	0.30 0.29 0.27 0.32	5.9 5.6 5.0 6.5	0.12 0.12 0.10 0.14	1.6 1.6 1.3 1.9	6.4 6.4 6.0 6.8
P37300331 DUP Target Range - Lower Bound Upper Bound																
P37300333 DUP Target Range - Lower Bound Upper Bound																
P37300091dup DUP Target Range - Lower Bound Upper Bound																
P37300233dup DUP Target Range - Lower Bound Upper Bound																
P37300340dup DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 15 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
P37300270 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P37300272 DUP Target Range - Lower Bound Upper Bound		1.59 1.49 1.43 1.65	3.0 2.9 2.6 3.3	1.38 1.38 1.28 1.48	1 1 <1 2	68.9 66.2 64.1 71.0	0.1 0.1 <0.1 0.2	0.25 0.23 0.22 0.26	0.59 0.61 0.52 0.68	<0.5 <0.5 <0.5 1.0	0.12 0.10 0.09 0.13	0.19 0.19 0.13 0.25	58 55 49 64	2 2 <1 3	8.7 8.4 7.6 9.5	0.83 0.72 0.71 0.84
P37300331 DUP Target Range - Lower Bound Upper Bound																
P37300333 DUP Target Range - Lower Bound Upper Bound																
P37300091dup DUP Target Range - Lower Bound Upper Bound																
P37300233dup DUP Target Range - Lower Bound Upper Bound																
P37300340dup DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 15 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
		2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
P37300270 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P37300272 DUP Target Range - Lower Bound Upper Bound		32 31 28 35														
P37300331 DUP Target Range - Lower Bound Upper Bound									15.60 15.70 14.85 16.45							
P37300333 DUP Target Range - Lower Bound Upper Bound									9.48 9.12 8.83 9.78							
P37300091dup DUP Target Range - Lower Bound Upper Bound											0.7 0.6 <0.5 1.0	<0.5 <0.5 <0.5 1.0	8 7 6 9	14 19 15 18	27 26 24 29	15 15 13 17
P37300233dup DUP Target Range - Lower Bound Upper Bound																
P37300340dup DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound									1.00 0.90 0.89 1.01							

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 15 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
P37300270 DUP Target Range - Lower Bound Upper Bound	DUPLICATES							
P37300272 DUP Target Range - Lower Bound Upper Bound								
P37300331 DUP Target Range - Lower Bound Upper Bound								
P37300333 DUP Target Range - Lower Bound Upper Bound								
P37300091dup DUP Target Range - Lower Bound Upper Bound	149 142 136 155	46 43 40 49						
P37300233dup DUP Target Range - Lower Bound Upper Bound								
P37300340dup DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								

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To: MINNESOTA STATE DEPARTMENT OF NATURAL
RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 16 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
Sample Description	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	0.01
DUPLICATES															
ORIGINAL	50.0	14.35	12.15	9.55	6.77	2.31	0.51	0.04	0.97	0.18	0.08	0.02	0.01		
DUP	50.5	14.50	12.20	9.53	6.84	2.33	0.52	0.04	0.97	0.19	0.09	0.02	0.01		
Target Range - Lower Bound	49.0	14.05	11.85	9.29	6.62	2.25	0.49	0.03	0.94	0.17	0.07	<0.01	<0.01		
Upper Bound	51.5	14.80	12.50	9.79	6.99	2.39	0.54	0.05	1.00	0.20	0.10	0.03	0.02		
ORIGINAL	61.1	15.80	6.45	5.09	2.47	3.92	2.22	<0.01	0.73	0.15	0.35	0.06	0.04		
DUP	61.8	16.05	6.64	5.33	2.51	3.80	2.21	<0.01	0.74	0.16	0.25	0.06	0.05		
Target Range - Lower Bound	59.9	15.50	6.37	5.07	2.42	3.75	2.15	<0.01	0.71	0.14	0.28	0.05	0.03		
Upper Bound	63.0	16.35	6.72	5.35	2.56	3.97	2.28	0.02	0.76	0.17	0.32	0.07	0.06		
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL	50.6	2.67	7.13	7.77	8.62	5.02	1.78	<0.01	0.71	1.02	0.27	0.03	0.01		
DUP	48.3	2.61	7.03	8.31	8.68	4.87	1.90	<0.01	0.75	1.09	0.30	0.03	0.02		
Target Range - Lower Bound	48.2	2.56	6.89	7.83	8.42	4.81	1.78	<0.01	0.70	1.02	0.27	0.02	<0.01		
Upper Bound	50.7	2.72	7.27	8.25	8.88	5.08	1.90	0.02	0.76	1.09	0.30	0.04	0.02		
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 16 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
DUPLICATES																
ORIGINAL		126.5	19.6	250	0.53	3.92	2.33	1.14	13.4	3.68	2.2	0.86	9.1	0.37	3.5	11.2
DUP		133.0	20.5	260	0.54	4.00	2.48	1.13	13.7	3.78	2.3	0.87	9.4	0.37	3.8	11.6
Target Range - Lower Bound		123.0	18.5	230	0.50	3.71	2.25	1.05	12.8	3.49	1.9	0.81	8.3	0.34	3.3	10.7
Upper Bound		136.5	21.6	280	0.57	4.21	2.56	1.22	14.3	3.97	2.6	0.92	10.2	0.40	4.0	12.1
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

Comments: Low whole rock totals confirmed by re-analysis.



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To: MINNESOTA STATE DEPARTMENT OF NATURAL
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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 16 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
DUPLICATES																
ORIGINAL		2.64	52.0	2.87	1	174.5	0.3	0.66	1.68	<0.5	0.35	0.40	207	<1	17.6	2.29
DUP		2.70	52.9	2.98	1	181.0	0.3	0.65	1.78	<0.5	0.37	0.40	217	<1	17.8	2.33
Target Range - Lower Bound		2.51	49.6	2.75	<1	169.0	0.2	0.61	1.59	<0.5	0.33	0.33	196	<1	16.3	2.16
Upper Bound		2.83	55.3	3.10	2	186.5	0.4	0.70	1.87	1.0	0.39	0.47	228	2	19.1	2.46
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
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DUP																
Target Range - Lower Bound																
Upper Bound																

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HIBBING MN 55746

Page: 16 - D

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		71 72 66 77	DUPLICATES													
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound									3.30 3.09 3.03 3.36							
ORIGINAL DUP Target Range - Lower Bound Upper Bound									2.70 2.60 2.51 2.79	88.3 86.5 85.2 89.6						
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound			<0.1 <0.1 <0.1 0.2	0.05 0.04 0.03 0.06	<0.005 <0.005 <0.005 0.010	<0.05 <0.05 <0.05 0.10	0.2 0.2 <0.2 0.4	0.01 0.01 <0.01 0.02			<0.5 <0.5 <0.5 1.0	<0.5 <0.5 <0.5 1.0	<1 <1 <1 2	7 7 6 8	<1 <1 <1 2	<1 <1 <1 2

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 16 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES						
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound					0.004 0.003 0.002 0.005	0.006 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002	
ORIGINAL DUP Target Range - Lower Bound Upper Bound					0.289 0.254 0.257 0.286	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002	
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound					0.001 0.002 <0.001 0.002	<0.005 <0.005 <0.005 0.010	0.001 0.001 <0.001 0.002	
ORIGINAL DUP Target Range - Lower Bound Upper Bound		5 4 <2 7	68 70 64 74					

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 17 - A

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units Sample Description	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %
LOR	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	0.01
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
ORIGINAL	55.7	6.30	14.90	3.64	1.88	1.46	3.70	<0.01	0.06	0.22	0.01	0.01	0.01		
DUP	53.9	6.23	13.90	3.40	1.80	1.48	3.63	<0.01	0.05	0.21	0.03	0.01	0.01		
Target Range - Lower Bound	53.4	6.10	14.05	3.42	1.78	1.42	3.56	<0.01	0.04	0.20	<0.01	<0.01	<0.01		
Upper Bound	56.2	6.43	14.75	3.62	1.90	1.52	3.77	0.02	0.07	0.23	0.03	0.02	0.02		
ORIGINAL DUP Target Range - Lower Bound Upper Bound															

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RESOURCES

1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 17 - B

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

QC CERTIFICATE OF ANALYSIS RE10060081

Method Analyte Units LOR	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.5	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1
Sample Description															
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
ORIGINAL DUP Target Range - Lower Bound Upper Bound															

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1525 3RD AVENUE EAST

HIBBING MN 55746

Page: 17 - C

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

Account: MINSTA

Project: 373

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Sample Description	Method Analyte Units LOR	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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HIBBING MN 55746

Page: 17 - D

Total # Pages: 17 (A - E)

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Method Analyte Units LOR	ME-MS81 Zr ppm	ME-MS42 As ppm	ME-MS42 Bi ppm	ME-MS42 Hg ppm	ME-MS42 Sb ppm	ME-MS42 Se ppm	ME-MS42 Te ppm	OA-GRA05 LOI %	TOT-ICP06 Total %	ME-4ACD81 Ag ppm	ME-4ACD81 Cd ppm	ME-4ACD81 Co ppm	ME-4ACD81 Cu ppm	ME-4ACD81 Mo ppm	ME-4ACD81 Ni ppm
Sample Description	2	0.1	0.01	0.005	0.05	0.2	0.01	0.01	0.01	0.5	0.5	1	1	1	1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES														
										<0.5	<0.5	19	53	<1	61
										<0.5	<0.5	20	55	<1	62
										<0.5	<0.5	18	50	<1	57
										1.0	1.0	21	58	2	66
ORIGINAL DUP Target Range - Lower Bound Upper Bound															
									3.59						
									3.50						
									3.36						
									3.73						

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HIBBING MN 55746

Page: 17 - E

Total # Pages: 17 (A - E)

Finalized Date: 28-MAY-2010

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Sample Description	Method Analyte Units LOR	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	Ag-OG62 Ag ppm 1	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Au-GRA21 Au ppm 0.05
ORIGINAL DUP Target Range - Lower Bound Upper Bound		17 15 13 19	94 92 86 100	DUPLICATES				
ORIGINAL DUP Target Range - Lower Bound Upper Bound								
ORIGINAL DUP Target Range - Lower Bound Upper Bound								

Comments: Low whole rock totals confirmed by re-analysis.