



ALS USA Inc.
4977 Energy Way
Reno NV 89502
Phone: 775 356 5395 Fax: 775 355 0179 www.alsglobal.com

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

Page: 1
Finalized Date: 6-JUL-2010
This copy reported on
2-SEP-2010
Account: MINSTA

QC CERTIFICATE RE10075765

Project: Project 373 and 378

P.O. No.:

This report is for 65 Drill Core samples submitted to our lab in Reno, NV, USA on 11-JUN-2010.

The following have access to data associated with this certificate:

BARRY FREY

DENNIS MARTIN

PHIL PIPPO

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
CRU-21	Crush entire sample >70% -6 mm
PUL-31	Pulverize split to 85% <75 um
SPL-33	Split Sample - scoop split
LOG-24	Pulp Login - Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
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
C-GAS05	Inorganic Carbon (CO2)	
F-ELE81a	F by Specific Ion Electrode	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-ICP61	33 element four acid ICP-AES	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	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

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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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Au ppm	Pt ppm	Pd ppm	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
		0.001	0.005	0.001	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																
CO-ASSAY																
CO-ASSAY																
CO-ASSAY																
CO-ASSAY																
Target Range - Lower Bound																
Upper Bound																
G2000																
G2000																
G2000																
G2000																
Target Range - Lower Bound																
Upper Bound																
GBM3961c																
Target Range - Lower Bound																
Upper Bound																
GBM3961c																
Target Range - Lower Bound																
Upper Bound																
GBM908-5																
Target Range - Lower Bound																
Upper Bound																
GBM908-5																
Target Range - Lower Bound																
Upper Bound																
GBM999-5																
Target Range - Lower Bound																
Upper Bound																
GBM999-5																
Target Range - Lower Bound																
Upper Bound																
GEOMS-03																
Target Range - Lower Bound																
Upper Bound																

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



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QC CERTIFICATE OF ANALYSIS RE10075765

Method Analyte Units LOR	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
Sample Description	0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
STANDARDS															
CO-ASSAY															
CO-ASSAY															
CO-ASSAY															
CO-ASSAY															
Target Range - Lower Bound															
Upper Bound															
G2000				2480	53.4	120	11.85	4.74	2.94	1.25	12.6	5.35	7.5	0.98	29.0
G2000				2570	53.4	120	12.25	4.72	2.89	1.24	13.1	5.38	7.5	0.92	29.5
G2000				2510	55.6	130	12.40	4.67	2.91	1.21	13.4	5.41	6.9	0.96	30.5
G2000				2430	53.4	120	12.35	4.71	2.95	1.21	12.6	5.45	7.2	1.01	28.8
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
Upper Bound				2600	59.0	140	13.65	5.06	3.08	1.32	14.4	5.97	8.0	1.06	32.7
GBM3961c															
Target Range - Lower Bound															
Upper Bound															
GBM3961c															
Target Range - Lower Bound															
Upper Bound															
GBM908-5															
Target Range - Lower Bound															
Upper Bound															
GBM908-5															
Target Range - Lower Bound															
Upper Bound															
GBM999-5															
Target Range - Lower Bound															
Upper Bound															
GBM999-5															
Target Range - Lower Bound															
Upper Bound															
GEOMS-03															
Target Range - Lower Bound															
Upper Bound															

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Sample Description	Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
STANDARDS																
CO-ASSAY																
CO-ASSAY																
CO-ASSAY																
CO-ASSAY																
Target Range - Lower Bound																
Upper Bound																
G2000		0.44	13.4	26.7	7.03	69.6	5.34	2	122.5	0.9	0.82	7.75	0.7	0.41	4.07	107
G2000		0.42	13.4	26.7	6.79	75.5	5.29	2	123.5	0.8	0.78	7.48	0.6	0.41	3.94	109
G2000		0.41	14.0	27.6	7.23	71.2	5.39	2	124.0	0.9	0.81	7.80	0.5	0.39	4.20	112
G2000		0.45	13.1	27.8	7.30	69.5	5.54	2	121.0	0.9	0.87	7.95	0.7	0.40	4.27	107
Target Range - Lower Bound		0.37	11.8	23.2	6.22	62.8	4.54	<1	104.5	0.8	0.71	6.95	<0.5	0.36	3.60	90
Upper Bound		0.47	14.9	28.6	7.66	77.2	5.62	3	127.5	1.2	0.89	8.61	1.0	0.46	4.52	121
GBM3961c																
Target Range - Lower Bound																
Upper Bound																
GBM3961c																
Target Range - Lower Bound																
Upper Bound																
GBM908-5																
Target Range - Lower Bound																
Upper Bound																
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Target Range - Lower Bound																
Upper Bound																
GBM999-5																
Target Range - Lower Bound																
Upper Bound																
GBM999-5																
Target Range - Lower Bound																
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GEOMS-03																
Target Range - Lower Bound																
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Sample Description	Method Analyte Units LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	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	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1
STANDARDS																
CO-ASSAY																
CO-ASSAY																
CO-ASSAY																
CO-ASSAY																
Target Range - Lower Bound																
Upper Bound																
G2000		19	26.8	2.77	273											
G2000		19	26.9	2.82	284											
G2000		19	27.3	2.76	293											
G2000		18	26.4	2.82	282											
Target Range - Lower Bound		18	23.3	2.36	243											
Upper Bound		24	29.6	2.95	302											
GBM3961c													8.7	20.9	157	2930
Target Range - Lower Bound													6.8	18.9	143	2580
Upper Bound													9.4	24.2	177	3160
GBM3961c						>250	22.5	0.616	21.1	5.0	2.74					
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					
GBM908-5													56.6	<0.5	10	478
Target Range - Lower Bound																
Upper Bound																
GBM908-5						6.4	0.98	0.021	0.12	0.4	0.04					
Target Range - Lower Bound																
Upper Bound																
GBM999-5													61.0	<0.5	3	481
Target Range - Lower Bound													53.0	<0.5	2	428
Upper Bound													65.8	1.0	4	526
GBM999-5						2.9	0.61	0.033	4.73	1.0	0.25					
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					
GEOMS-03						>250	0.38	0.691	11.00	2.1	0.09					
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					

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
STANDARDS										
CO-ASSAY						0.56	2.0			
CO-ASSAY						0.50	1.8			
CO-ASSAY						0.54	2.0			
CO-ASSAY						0.54	2.0			
Target Range - Lower Bound						0.44	1.6			
Upper Bound						0.62	2.3			
G2000										
G2000										
G2000										
G2000										
Target Range - Lower Bound										
Upper Bound										
GBM3961c		9	2220	1890	6660					10
Target Range - Lower Bound		8	1925	1720	6290					<10
Upper Bound		12	2360	2110	7690					20
GBM3961c								<10		
Target Range - Lower Bound								<10		
Upper Bound								20		
GBM908-5		49	393	378	229					10
Target Range - Lower Bound										<10
Upper Bound										20
GBM908-5								<10		
Target Range - Lower Bound								<10		
Upper Bound								20		
GBM999-5		3	5	531	114					10
Target Range - Lower Bound		3	3	486	102					<10
Upper Bound		5	5	598	129					20
GBM999-5								<10		
Target Range - Lower Bound								<10		
Upper Bound								20		
GEOMS-03								<10		
Target Range - Lower Bound								<10		
Upper Bound								20		

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	
	Analyte	Au	Pt	Pd	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO
	Units	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.001	0.005	0.001	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																
GPP-01		0.943	0.926	0.694												
Target Range - Lower Bound		0.841	0.892	0.682												
Upper Bound		0.969	1.040	0.786												
GPP-02		0.964	0.522	0.528												
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																
Target Range - Lower Bound																
Upper Bound																
MA-1b																
MA-1b																
MA-1b																
MA-1b																
MA-1b																
MA-1b																
Target Range - Lower Bound																
Upper Bound																
MA-1b																
MA-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
OGGeo08																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
		0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
STANDARDS																
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																
Target Range - Lower Bound																
Upper Bound																
MA-1b			2.50													
MA-1b			2.52													
MA-1b			2.45													
MA-1b			2.46													
MA-1b			2.44													
MA-1b			2.44													
Target Range - Lower Bound			2.34													
Upper Bound			2.54													
MA-1b				1.22												
MA-1b				1.16												
Target Range - Lower Bound				1.12												
Upper Bound				1.22												
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
OGGeo08																
Target Range - Lower Bound																
Upper Bound																

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STANDARDS																
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																
Target Range - Lower Bound																
Upper Bound																
MA-1b																
MA-1b																
MA-1b																
MA-1b																
MA-1b																
MA-1b																
Target Range - Lower Bound																
Upper Bound																
MA-1b																
MA-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
MRGeo08																
Target Range - Lower Bound																
Upper Bound																
OGGeo08																
Target Range - Lower Bound																
Upper Bound																

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STANDARDS																
GPP-01																
Target Range - Lower Bound																
Upper Bound																
GPP-02																
Target Range - Lower Bound																
Upper Bound																
LKSD-3												13.30				
LKSD-3												13.70				
LKSD-3												13.50				
LKSD-3												13.40				
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																
Target Range - Lower Bound																
Upper Bound																
MA-1b																
MA-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08													4.2	2.2	18	607
Target Range - Lower Bound																
Upper Bound																
MRGeo08						34.4	0.74	0.060	3.28	1.1	0.02					
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													20.7	18.7	91	8480
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
STANDARDS										
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										
Target Range - Lower Bound										
Upper Bound										
MA-1b										
MA-1b										
MA-1b										
MA-1b										
MA-1b										
MA-1b										
Target Range - Lower Bound										
Upper Bound										
MA-1b										
MA-1b										
Target Range - Lower Bound										
Upper Bound										
MRGeo08		13	686	1000	778					30
Target Range - Lower Bound										20
Upper Bound										50
MRGeo08								<10		
Target Range - Lower Bound								<10		
Upper Bound								20		
OGGeo08		928	8460	7020	6850					30
Target Range - Lower Bound										20
Upper Bound										50

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



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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01
STANDARDS																
OGGeo08																
Target Range - Lower Bound																
Upper Bound																
OREAS-13P					48.9	19.20	10.40	9.84	5.24	2.56	0.53	0.02	0.55	0.14	0.17	0.04
OREAS-13P					48.8	19.20	10.85	9.71	5.57	2.56	0.55	0.02	0.58	0.14	0.21	0.04
OREAS-13P					46.4	18.95	10.65	9.67	5.37	2.56	0.54	0.02	0.55	0.14	0.18	0.04
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
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
OREAS-13P																
OREAS-13P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45P																
OREAS-45P																
OREAS-45P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45P					43.6	12.65	11.75	0.40	0.34	0.10	0.40	0.13	1.18	0.18	0.03	<0.01
OREAS-45P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45P		0.053	0.076	0.052												
Target Range - Lower Bound		0.050	0.066	0.050												
Upper Bound		0.060	0.086	0.060												
OxA71		0.080	<0.005	<0.001												
Target Range - Lower Bound		0.078														
Upper Bound		0.092														
OXD73		0.385	<0.005	<0.001												
Target Range - Lower Bound																
Upper Bound																

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



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Project: Project 373 and 378

QC CERTIFICATE OF ANALYSIS RE10075765

Method Analyte Units LOR	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
Sample Description	0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
STANDARDS															
OGGeo08															
Target Range - Lower Bound															
Upper Bound															
OREAS-13P	0.03														
OREAS-13P	0.03														
OREAS-13P	0.03														
Target Range - Lower Bound	0.02														
Upper Bound	0.04														
OREAS-13P				250	24.7	140	0.20	3.57	2.00	1.42	17.8	3.74	2.4	0.72	11.3
OREAS-13P				249	23.8	130	0.21	3.46	1.91	1.38	17.0	3.59	2.3	0.63	11.1
Target Range - Lower Bound															
Upper Bound															
OREAS-45P															
OREAS-45P															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OREAS-45P	0.03			285	47.5	1040	2.11	3.90	2.22	1.21	24.6	4.38	7.2	0.75	24.4
OREAS-45P				255	45.3	650	1.91	3.74	2.20	1.12	19.9	3.98	7.9	0.77	26.9
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
Upper Bound				310	54.3	1260	2.06	4.56	2.45	1.35	24.9	4.45	8.3	0.87	27.8
OREAS-45P															
Target Range - Lower Bound															
Upper Bound															
OxA71															
Target Range - Lower Bound															
Upper Bound															
OXD73															
Target Range - Lower Bound															
Upper Bound															

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
STANDARDS																
OGGeo08																
Target Range - Lower Bound																
Upper Bound																
OREAS-13P																
OREAS-13P																
OREAS-13P																
Target Range - Lower Bound																
Upper Bound																
OREAS-13P		0.26	3.0	14.7	3.27	14.0	3.56	1	348	0.2	0.60	1.67	<0.5	0.27	0.30	99
OREAS-13P		0.24	2.8	14.0	3.05	14.5	3.35	1	337	0.2	0.56	1.57	<0.5	0.25	0.29	94
Target Range - Lower Bound																
Upper Bound																
OREAS-45P																
OREAS-45P																
OREAS-45P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45P																
Target Range - Lower Bound																
Upper Bound																
OREAS-45P		0.31	21.3	22.1	5.53	24.0	4.51	3	35.8	1.3	0.67	10.40	<0.5	0.33	2.31	221
OREAS-45P		0.33	17.4	20.0	5.42	21.2	4.17	2	32.9	1.2	0.69	9.94	<0.5	0.30	2.24	148
Target Range - Lower Bound		0.27	21.4	18.8	4.83	20.5	4.03	2	29.2	1.3	0.61	8.77	<0.5	0.28	2.11	220
Upper Bound		0.35	26.6	23.2	5.97	25.5	4.99	4	36.0	1.9	0.77	10.85	1.0	0.36	2.69	280
OREAS-45P																
Target Range - Lower Bound																
Upper Bound																
OxA71																
Target Range - Lower Bound																
Upper Bound																
OXD73																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	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	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1
STANDARDS																
OGGeo08						119.5	11.90	0.505	20.6	11.0	0.13					
Target Range - Lower Bound						109.0										
Upper Bound						133.0										
OREAS-13P																
OREAS-13P																
OREAS-13P																
Target Range - Lower Bound																
Upper Bound																
OREAS-13P		4	17.8	1.74	90											
OREAS-13P		3	16.9	1.70	84											
Target Range - Lower Bound																
Upper Bound																
OREAS-45P													0.7	<0.5	108	721
OREAS-45P													<0.5	<0.5	108	727
OREAS-45P													<0.5	<0.5	113	722
Target Range - Lower Bound													<0.5	<0.5	107	673
Upper Bound													1.0	1.0	133	825
OREAS-45P						4.0	0.18	0.025	0.33	0.6	0.04					
Target Range - Lower Bound																
Upper Bound																
OREAS-45P		6	17.6	2.26	282											
OREAS-45P		6	16.7	2.13	290											
Target Range - Lower Bound		4	15.7	1.86	249											
Upper Bound		7	20.3	2.34	309											
OREAS-45P																
Target Range - Lower Bound																
Upper Bound																
OxA71																
Target Range - Lower Bound																
Upper Bound																
OXD73																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
STANDARDS										
OGGeo08									<10	
Target Range - Lower Bound									<10	
Upper Bound									20	
OREAS-13P										
OREAS-13P										
OREAS-13P										
Target Range - Lower Bound										
Upper Bound										
OREAS-13P										
OREAS-13P										
Target Range - Lower Bound										
Upper Bound										
OREAS-45P		1	374	22	137					10
OREAS-45P		1	375	24	144					<10
OREAS-45P		<1	361	17	132					<10
Target Range - Lower Bound		<1	346	18	125					<10
Upper Bound		2	425	26	157					20
OREAS-45P									<10	
Target Range - Lower Bound									<10	
Upper Bound									20	
OREAS-45P										
OREAS-45P										
Target Range - Lower Bound										
Upper Bound										
OREAS-45P										
Target Range - Lower Bound										
Upper Bound										
OxA71										
Target Range - Lower Bound										
Upper Bound										
OXD73										
Target Range - Lower Bound										
Upper Bound										

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Sample Description	Method Analyte Units LOR	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm	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 %
STANDARDS																
PGMS-17		0.999	1.030	4.30												
Target Range - Lower Bound		0.861	0.923	4.00												
Upper Bound		0.993	1.075	4.60												
PK2		4.92	4.71	5.85												
Target Range - Lower Bound		4.45	4.41	5.50												
Upper Bound		5.12	5.09	6.33												
SARM-1																
Target Range - Lower Bound																
Upper Bound																
SARM-16					5.08	0.18	16.55	4.74	0.65	0.06	0.03	0.01	0.01	61.8	0.05	0.08
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
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
SARM-16																
Target Range - Lower Bound																
Upper Bound																
SARM-3																
SARM-3																
Target Range - Lower Bound																
Upper Bound																
SL34		6.14	<0.005	0.003												
Target Range - Lower Bound		5.48														
Upper Bound		6.31														
SRM88B					1.28	0.34	0.28	29.9	21.3	0.03	0.09	<0.01	0.02	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
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
SRM88B																
Target Range - Lower Bound																
Upper Bound																
STSD-1																
Target Range - Lower Bound																
Upper Bound																
STSD-4																
STSD-4																
STSD-4																
STSD-4																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
		0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
STANDARDS																
PGMS-17																
Target Range - Lower Bound																
Upper Bound																
PK2																
Target Range - Lower Bound																
Upper Bound																
SARM-1																
Target Range - Lower Bound																
Upper Bound																
SARM-16		0.69														
Target Range - Lower Bound		0.65														
Upper Bound		0.73														
SARM-16					5620	8.1	10	0.11	1.19	0.91	0.32	38.3	1.08	0.2	0.28	7.2
Target Range - Lower Bound																
Upper Bound																
SARM-3																
SARM-3																
Target Range - Lower Bound																
Upper Bound																
SL34																
Target Range - Lower Bound																
Upper Bound																
SRM88B		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
SRM88B					5.0	3.6	<10	0.13	0.63	0.47	0.13	0.3	0.64	0.2	0.15	4.8
Target Range - Lower Bound																
Upper Bound																
STSD-1																
Target Range - Lower Bound																
Upper Bound																
STSD-4																
STSD-4																
STSD-4																
STSD-4																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
STANDARDS																
PGMS-17																
Target Range - Lower Bound																
Upper Bound																
PK2																
Target Range - Lower Bound																
Upper Bound																
SARM-1																
Target Range - Lower Bound																
Upper Bound																
SARM-16																
Target Range - Lower Bound																
Upper Bound																
SARM-16		0.13	0.3	4.6	1.08	1.0	0.89	1	574	<0.1	0.18	0.89	<0.5	0.14	0.36	15
Target Range - Lower Bound																
Upper Bound																
SARM-3																
SARM-3																
Target Range - Lower Bound																
Upper Bound																
SL34																
Target Range - Lower Bound																
Upper Bound																
SRM88B																
Target Range - Lower Bound																
Upper Bound																
SRM88B		0.05	0.4	3.3	0.79	2.9	0.51	<1	62.8	<0.1	0.10	0.37	<0.5	0.05	0.14	<5
Target Range - Lower Bound																
Upper Bound																
STSD-1																
Target Range - Lower Bound																
Upper Bound																
STSD-4																
STSD-4																
STSD-4																
STSD-4																
STSD-4																
Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	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	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1
STANDARDS																
PGMS-17																
Target Range - Lower Bound																
Upper Bound																
PK2																
Target Range - Lower Bound																
Upper Bound																
SARM-1																
Target Range - Lower Bound																
Upper Bound																
SARM-16																
Target Range - Lower Bound																
Upper Bound																
SARM-16		4	12.1	0.81	9											
Target Range - Lower Bound																
Upper Bound																
SARM-3																
SARM-3																
Target Range - Lower Bound																
Upper Bound																
SL34																
Target Range - Lower Bound																
Upper Bound																
SRM88B																
Target Range - Lower Bound																
Upper Bound																
SRM88B		1	7.9	0.34	8											
Target Range - Lower Bound																
Upper Bound																
STSD-1																
Target Range - Lower Bound																
Upper Bound																
STSD-4												11.40				
STSD-4												11.45				
STSD-4												11.60				
STSD-4												11.30				
STSD-4												11.10				
Target Range - Lower Bound												10.45				
Upper Bound												12.75				

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Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
STANDARDS										
PGMS-17										
Target Range - Lower Bound										
Upper Bound										
PK2										
Target Range - Lower Bound										
Upper Bound										
SARM-1								4200		
Target Range - Lower Bound								3760		
Upper Bound								4640		
SARM-16										
Target Range - Lower Bound										
Upper Bound										
SARM-16										
Target Range - Lower Bound										
Upper Bound										
SARM-3								3960		
SARM-3								4190		
Target Range - Lower Bound								3940		
Upper Bound								4860		
SL34										
Target Range - Lower Bound										
Upper Bound										
SRM88B										
Target Range - Lower Bound										
Upper Bound										
SRM88B										
Target Range - Lower Bound										
Upper Bound										
STSD-1								1050		
Target Range - Lower Bound								840		
Upper Bound								1070		
STSD-4										
STSD-4										
STSD-4										
STSD-4										
Target Range - Lower Bound										
Upper Bound										

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

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Project: Project 373 and 378

QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	
		Au	Pt	Pd	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO
		ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	%
		0.001	0.005	0.001	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																
SY-4																
SY-4																
SY-4																
SY-4																
Target Range - Lower Bound																
Upper Bound																
SY-4					52.3	21.2	6.06	8.32	0.48	7.21	1.59	<0.01	0.29	0.10	0.12	0.15
SY-4					50.9	21.3	6.47	8.04	0.52	7.14	1.59	<0.01	0.30	0.11	0.12	0.14
SY-4					50.7	20.3	6.06	7.87	0.49	7.16	1.64	<0.01	0.29	0.11	0.11	0.15
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
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
SY-4																
SY-4																
SY-4					51.7	20.8	6.09	7.93	0.50	6.99	1.59	<0.01	0.28	0.11	0.11	0.15
SY-4																
SY-4																
SY-4																
Target Range - Lower Bound																
Upper Bound																
UTS-1																
UTS-1																
UTS-1																
Target Range - Lower Bound																
Upper Bound																
UTS-2																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																

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



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QC CERTIFICATE OF ANALYSIS RE10075765

Method Analyte Units LOR	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
Sample Description	0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
STANDARDS															
SY-4															
SY-4															
SY-4															
SY-4															
Target Range - Lower Bound															
Upper Bound															
SY-4	0.04														
SY-4	0.04														
SY-4	0.04														
Target Range - Lower Bound	0.03														
Upper Bound	0.05														
SY-4				328	121.5	10	1.40	19.65	15.35	2.20	35.5	15.00	11.6	4.58	57.3
SY-4				347	123.0	10	1.62	19.40	15.10	2.17	35.7	14.90	11.3	4.32	59.3
SY-4	0.04			306	111.5	10	1.36	17.80	13.90	1.98	33.5	13.25	10.8	4.04	53.0
SY-4				326	123.5	10	1.43	18.60	14.65	2.12	35.3	14.25	11.2	4.38	58.1
SY-4				330	122.5	10	1.45	18.95	15.10	2.14	38.9	14.75	11.8	4.62	56.2
SY-4				322	120.5	10	1.48	18.80	15.00	2.19	33.6	14.65	11.4	4.61	56.9
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
Upper Bound				375	134.5	20	1.66	20.1	15.65	2.23	38.6	15.45	11.9	4.74	64.3
UTS-1			0.99												
UTS-1			1.03												
UTS-1			0.99												
Target Range - Lower Bound			0.95												
Upper Bound			1.05												
UTS-2			3.33												
Target Range - Lower Bound			3.11												
Upper Bound			3.35												
BLANKS															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															

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



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Project: Project 373 and 378

QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
STANDARDS																
SY-4																
SY-4																
SY-4																
SY-4																
Target Range - Lower Bound																
Upper Bound																
SY-4																
SY-4																
SY-4																
Target Range - Lower Bound																
Upper Bound																
SY-4		2.20	13.6	58.9	15.30	52.1	13.25	7	1205	0.8	2.82	1.30	<0.5	2.38	0.75	6
SY-4		2.12	14.1	59.1	14.75	57.1	13.10	8	1260	0.8	2.70	1.22	<0.5	2.36	0.81	6
SY-4		1.94	14.5	54.6	13.75	49.7	12.25	7	1085	0.8	2.56	1.21	<0.5	2.08	0.69	7
SY-4		2.14	14.2	57.5	15.10	51.0	12.75	7	1135	0.9	2.75	1.26	<0.5	2.26	0.88	5
SY-4		2.17	13.9	59.4	15.40	52.6	13.75	7	1220	0.9	2.79	1.53	<0.5	2.36	0.83	5
SY-4		2.25	13.3	59.3	15.45	50.4	13.05	7	1115	0.8	2.81	1.43	<0.5	2.36	0.93	7
Target Range - Lower Bound		1.88	11.5	51.2	13.45	49.3	11.40	6	1070	0.7	2.33	1.21	<0.5	2.06	0.67	<5
Upper Bound		2.32	14.5	62.8	16.55	60.7	14.00	10	1310	1.1	2.87	1.59	1.0	2.54	0.93	10
UTS-1																
UTS-1																
UTS-1																
Target Range - Lower Bound																
Upper Bound																
UTS-2																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																

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



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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	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	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1
STANDARDS																
SY-4																
SY-4																
SY-4																
SY-4																
Target Range - Lower Bound																
Upper Bound																
SY-4																
SY-4																
SY-4																
Target Range - Lower Bound																
Upper Bound																
SY-4		1	117.5	15.70	552											
SY-4		<1	116.5	15.55	584											
SY-4		1	107.5	14.45	543											
SY-4		<1	111.5	15.00	580											
SY-4		1	117.5	15.20	588											
SY-4		<1	112.5	15.15	578											
Target Range - Lower Bound		<1	106.5	13.30	481											
Upper Bound		2	131.5	16.30	593											
UTS-1																
UTS-1																
UTS-1																
Target Range - Lower Bound																
Upper Bound																
UTS-2																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
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Target Range - Lower Bound																
Upper Bound																

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
STANDARDS										
SY-4						0.97	3.6			
SY-4						0.93	3.4			
SY-4						0.97	3.6			
SY-4						0.97	3.5			
Target Range - Lower Bound						0.84	3.1			
Upper Bound						1.08	3.9			
SY-4										
SY-4										
SY-4										
Target Range - Lower Bound										
Upper Bound										
SY-4										
SY-4										
SY-4										
SY-4										
SY-4										
Target Range - Lower Bound										
Upper Bound										
UTS-1										
UTS-1										
UTS-1										
Target Range - Lower Bound										
Upper Bound										
UTS-2										
Target Range - Lower Bound										
Upper Bound										
BLANKS										
BLANK						<0.05	<0.2			
BLANK						<0.05	<0.2			
BLANK						<0.05	<0.2			
BLANK						<0.05	<0.2			
Target Range - Lower Bound						<0.05	<0.2			
Upper Bound						0.10	0.4			

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	
		Au	Pt	Pd	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO
		ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	%
		0.001	0.005	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BLANKS																
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Target Range - Lower Bound																
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Target Range - Lower Bound																
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QC CERTIFICATE OF ANALYSIS RE10075765

Method	ME-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
Analyte	BaO	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Hf	Ho	La
Units	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR	0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
Sample Description	BLANKS														
BLANK		<0.01													
BLANK		0.01													
BLANK		0.02													
Target Range - Lower Bound		<0.01													
Upper Bound		0.02													
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<0.01														
BLANK	<0.01														
BLANK	<0.01														
BLANK	<0.01														
Target Range - Lower Bound	<0.01														
Upper Bound	0.02														
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
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
BLANK				<0.5	<0.5	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5
BLANK	<0.01			0.9	<0.5	<10	0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	0.01	<0.5
BLANK				<0.5	<0.5	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5
BLANK				<0.5	<0.5	<10	<0.01	<0.05	<0.03	<0.03	<0.1	<0.05	<0.2	<0.01	<0.5
BLANK				0.5	<0.5	<10	0.01	<0.05	<0.03	<0.03	0.1	<0.05	<0.2	<0.01	<0.5
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
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
BLANK															
BLANK															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															

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QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
BLANKS																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
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BLANK																
Target Range - Lower Bound																
Upper Bound																
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Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	0.7	<0.1	<0.01	<0.05	<0.5	0.01	<0.05	<5
BLANK		<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	0.8	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5
BLANK		0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	0.8	<0.1	0.01	0.08	<0.5	0.02	<0.05	<5
BLANK		<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	0.3	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5
BLANK		<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	0.1	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5
BLANK		<0.01	<0.2	<0.1	<0.03	0.2	<0.03	<1	0.4	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5
Target Range - Lower Bound		<0.01	<0.2	<0.1	<0.03	<0.2	<0.03	<1	<0.1	<0.1	<0.01	<0.05	<0.5	<0.01	<0.05	<5
Upper Bound		0.02	0.4	0.2	0.06	0.4	0.06	2	0.2	0.2	0.02	0.10	1.0	0.02	0.10	10
BLANK																
BLANK																
BLANK																
BLANK																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																

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

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Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
BLANKS										
BLANK										
BLANK										
BLANK										
Target Range - Lower Bound										
Upper Bound										
BLANK								30		
BLANK								<20		
Target Range - Lower Bound								<20		
Upper Bound								40		
BLANK										
BLANK										
BLANK										
BLANK										
Target Range - Lower Bound										
Upper Bound										
BLANK		<1	<1	<2	<2					<10
BLANK		<1	<1	2	<2					<10
Target Range - Lower Bound		<1	<1	<2	<2					<10
Upper Bound		2	2	4	4					20
BLANK									<10	
BLANK									<10	
Target Range - Lower Bound									<10	
Upper Bound									20	
BLANK										
BLANK										
BLANK										
BLANK										
BLANK										
BLANK										
Target Range - Lower Bound										
Upper Bound										
BLANK										
BLANK										
BLANK										
BLANK										
BLANK										
Target Range - Lower Bound										
Upper Bound										
BLANK										

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



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Project: Project 373 and 378

QC CERTIFICATE OF ANALYSIS RE10075765

Sample Description	Method Analyte Units LOR	PGM-ICP23	PGM-ICP23	PGM-ICP23	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Au ppm	Pt ppm	Pd ppm	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %
		0.001	0.005	0.001	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
BLANKS																
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																
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																

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QC CERTIFICATE OF ANALYSIS RE10075765

Method Analyte Units LOR	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
Sample Description	0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
BLANK Target Range - Lower Bound Upper Bound	<div>BLANKS</div> <div>0.01</div> <div>0.01</div> <div><0.01</div> <div><0.01</div> <div>0.02</div> <div>DUPLICATES</div>														
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL DUP	<div>433 105.0 60 4.15 6.20 3.80 1.61 18.1 7.99 16.3 1.28 46.6</div> <div>432 103.5 60 4.05 7.02 4.24 1.64 18.0 8.04 16.7 1.45 46.0</div> <div>410 98.5 50 3.89 6.23 3.79 1.51 17.0 7.56 15.5 1.29 43.5</div> <div>455 110.0 70 4.32 6.99 4.25 1.74 19.1 8.47 17.5 1.44 49.1</div>														
Target Range - Lower Bound															
Upper Bound															
ORIGINAL DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL DUP	<div>14.80</div> <div>15.05</div> <div>14.55</div> <div>15.30</div>														
Target Range - Lower Bound															
Upper Bound															
ORIGINAL DUP															
Target Range - Lower Bound															
Upper Bound															

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Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
Sample Description															
BLANK	<div>BLANKS</div> <div>DUPLICATES</div>														
Target Range - Lower Bound															
Upper Bound															
BLANK															
BLANK															
BLANK															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL	0.56	18.6	45.0	11.95	96.3	8.56	3	67.0	1.6	1.18	17.05	<0.5	0.54	3.45	67
DUP	0.66	18.6	44.2	12.05	97.1	8.81	3	66.6	1.6	1.25	17.30	<0.5	0.62	3.61	71
Target Range - Lower Bound	0.57	17.5	42.3	11.35	91.7	8.22	2	63.4	1.4	1.14	16.25	<0.5	0.54	3.30	61
Upper Bound	0.65	19.7	46.9	12.65	101.5	9.15	4	70.2	1.8	1.29	18.10	1.0	0.62	3.76	77
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															
ORIGINAL															
DUP															
Target Range - Lower Bound															
Upper Bound															

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Sample Description	Method Analyte Units LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	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	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1
BLANK Target Range - Lower Bound Upper Bound BLANK BLANK BLANK Target Range - Lower Bound Upper Bound ORIGINAL DUP Target Range - Lower Bound Upper Bound		BLANKS														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		1.70 1.70 1.61 1.80														
ORIGINAL DUP Target Range - Lower Bound Upper Bound		3 3 2 4	32.1 35.9 31.8 36.2	3.71 4.11 3.68 4.14	589 592 559 622											
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
BLANKS										
BLANK										
Target Range - Lower Bound										
Upper Bound										
BLANK										
BLANK										
BLANK										
Target Range - Lower Bound										
Upper Bound										
DUPLICATES										
ORIGINAL						<0.05	<0.2			
DUP						<0.05	<0.2			
Target Range - Lower Bound						<0.05	<0.2			
Upper Bound						0.10	0.4			
ORIGINAL										
DUP										
Target Range - Lower Bound										
Upper Bound										
ORIGINAL						0.06	0.2			
DUP						<0.05	0.2			
Target Range - Lower Bound						<0.05	<0.2			
Upper Bound						0.10	0.4			
ORIGINAL										
DUP										
Target Range - Lower Bound										
Upper Bound										

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Sample Description	Method Analyte Units LOR	PGM-ICP23 Au ppm	PGM-ICP23 Pt ppm	PGM-ICP23 Pd ppm	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 %
		0.001	0.005	0.001	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														
P3780001 DUP Target Range - Lower Bound Upper Bound		0.001 0.001 <0.001 0.002	<0.005 <0.005 <0.005 0.010	0.001 0.001 <0.001 0.002												
P3780010 DUP Target Range - Lower Bound Upper Bound																
P3780014 DUP Target Range - Lower Bound Upper Bound					63.4 60.4 60.3 63.5	14.75 14.00 14.00 14.75	6.34 6.04 6.03 6.35	3.37 3.21 3.20 3.38	1.22 1.19 1.16 1.25	4.44 4.22 4.21 4.45	1.27 1.19 1.19 1.27	<0.01 <0.01 <0.01 0.02	0.72 0.68 0.67 0.73	0.10 0.10 0.09 0.11	0.25 0.14 0.18 0.21	0.02 0.02 <0.01 0.03
P3780016 DUP Target Range - Lower Bound Upper Bound																
P3780030 DUP Target Range - Lower Bound Upper Bound					43.0 43.3 42.1 44.2	16.40 16.35 15.95 16.80	9.55 9.64 9.35 9.84	11.50 11.60 11.25 11.85	4.65 4.63 4.51 4.77	2.16 2.15 2.09 2.22	0.68 0.71 0.67 0.72	0.02 0.02 <0.01 0.03	0.73 0.72 0.70 0.75	0.14 0.14 0.13 0.15	0.07 <0.01 0.03 0.05	0.01 0.01 <0.01 0.02
P3780031 DUP Target Range - Lower Bound Upper Bound																
P3780037 DUP Target Range - Lower Bound Upper Bound		<0.001 <0.001 <0.001 0.002	<0.005 <0.005 <0.005 0.010	0.002 0.001 <0.001 0.002												

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Sample Description	Method Analyte Units LOR	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
		0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
ORIGINAL				21.8												
DUP				21.8												
Target Range - Lower Bound				21.2												
Upper Bound				22.4												
P3780001																
DUP																
Target Range - Lower Bound																
Upper Bound																
P3780010			0.58	0.09												
DUP			0.59	0.08												
Target Range - Lower Bound			0.56	0.07												
Upper Bound			0.61	0.10												
P3780014		0.04														
DUP		0.03														
Target Range - Lower Bound		0.02														
Upper Bound		0.05														
P3780016																
DUP																
Target Range - Lower Bound																
Upper Bound																
P3780030		0.01			128.5	7.1	140	2.10	2.64	1.83	0.69	15.4	2.11	1.3	0.56	2.8
DUP		0.01			123.5	6.9	130	1.99	2.57	1.78	0.65	15.0	2.08	1.3	0.53	2.7
Target Range - Lower Bound		<0.01			119.0	6.2	120	1.93	2.42	1.68	0.61	14.3	1.94	1.0	0.51	2.1
Upper Bound		0.02			133.0	7.9	150	2.16	2.79	1.93	0.73	16.1	2.25	1.6	0.58	3.4
P3780031																
DUP																
Target Range - Lower Bound																
Upper Bound																
P3780037																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P3780001 DUP Target Range - Lower Bound Upper Bound																
P3780010 DUP Target Range - Lower Bound Upper Bound																
P3780014 DUP Target Range - Lower Bound Upper Bound																
P3780016 DUP Target Range - Lower Bound Upper Bound																
P3780030 DUP Target Range - Lower Bound Upper Bound		0.27 0.26 0.24 0.29	2.1 2.0 1.7 2.4	5.6 5.3 5.1 5.8	1.08 1.03 0.97 1.14	24.6 23.1 22.5 25.2	1.66 1.62 1.53 1.75	1 <1 <1 2	150.5 144.0 140.0 154.5	0.1 0.1 <0.1 0.2	0.38 0.38 0.35 0.41	0.22 0.22 0.16 0.28	<0.5 <0.5 <0.5 1.0	0.28 0.26 0.25 0.29	0.05 0.05 <0.05 0.10	195 182 174 203
P3780031 DUP Target Range - Lower Bound Upper Bound																
P3780037 DUP Target Range - Lower Bound Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	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	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1
ORIGINAL DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P3780001 DUP Target Range - Lower Bound Upper Bound																
P3780010 DUP Target Range - Lower Bound Upper Bound						0.6 0.5 0.4 0.7	0.03 0.03 0.02 0.04	0.009 <0.005 <0.005 0.010	0.16 0.15 0.09 0.22	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	8 6 6 8	7 7 6 8
P3780014 DUP Target Range - Lower Bound Upper Bound																
P3780016 DUP Target Range - Lower Bound Upper Bound												3.63 3.24 3.25 3.62				
P3780030 DUP Target Range - Lower Bound Upper Bound		<1 <1 2	15.1 14.4 13.5 16.0	1.90 1.77 1.71 1.96	42 40 37 45											
P3780031 DUP Target Range - Lower Bound Upper Bound																
P3780037 DUP Target Range - Lower Bound Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES									
P3780001 DUP Target Range - Lower Bound Upper Bound										
P3780010 DUP Target Range - Lower Bound Upper Bound		1 1 <1 2	2 <1 <1 2	2 5 <2 4	77 79 72 84			430 430 390 470	<10 <10 <10 20	10 <10 <10 20
P3780014 DUP Target Range - Lower Bound Upper Bound										
P3780016 DUP Target Range - Lower Bound Upper Bound										
P3780030 DUP Target Range - Lower Bound Upper Bound										
P3780031 DUP Target Range - Lower Bound Upper Bound						1.34 1.34 1.22 1.46	4.9 4.9 4.5 5.3			
P3780037 DUP Target Range - Lower Bound Upper Bound										

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	Method Analyte Units LOR	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01
Sample Description																
P3780044 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P3780045 DUP Target Range - Lower Bound Upper Bound																
P3780046 DUP Target Range - Lower Bound Upper Bound																
P3780052 DUP Target Range - Lower Bound Upper Bound																
P3780057 DUP Target Range - Lower Bound Upper Bound		0.001 0.001 Target Range - Lower Bound Upper Bound	<0.005 <0.005 Target Range - Lower Bound Upper Bound	0.001 0.002 Target Range - Lower Bound Upper Bound												
P3780050DUP DUP Target Range - Lower Bound Upper Bound		53.7 14.10 6.18 8.85 2.87 3.45 0.89 0.01 0.46 0.08 0.14 0.02 54.2 14.20 6.32 8.59 3.04 3.47 0.92 0.01 0.45 0.08 0.06 0.02 Target Range - Lower Bound 52.6 13.80 6.08 8.49 2.87 3.36 0.87 <0.01 0.43 0.07 0.09 <0.01 Upper Bound 55.3 14.50 6.42 8.95 3.04 3.56 0.94 0.02 0.48 0.09 0.11 0.03														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		41.8 20.0 11.65 12.75 4.97 1.50 0.11 0.01 4.31 0.13 <0.01 0.04 41.8 20.0 11.65 12.70 5.05 1.50 0.10 0.01 4.28 0.12 <0.01 0.05 Target Range - Lower Bound 40.7 19.50 11.35 12.40 4.87 1.45 0.09 <0.01 4.18 0.11 <0.01 0.03 Upper Bound 42.9 20.5 11.95 13.05 5.15 1.55 0.12 0.02 4.41 0.14 0.02 0.06														

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Sample Description	Method Analyte Units LOR	ME-ICP06 BaO % 0.01	C-IR07 C % 0.01	S-IR08 S % 0.01	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
P3780044 DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
P3780045 DUP Target Range - Lower Bound Upper Bound																
P3780046 DUP Target Range - Lower Bound Upper Bound		0.96 0.95 0.92 0.99	1.21 1.15 1.14 1.22													
P3780052 DUP Target Range - Lower Bound Upper Bound																
P3780057 DUP Target Range - Lower Bound Upper Bound																
P3780050DUP DUP Target Range - Lower Bound Upper Bound	0.01 0.01 <0.01 0.02	119.5 121.5 114.0 127.0		18.2 18.4 16.9 19.7	60 60 50 70	0.84 0.85 0.79 0.90	1.61 1.64 1.49 1.76	1.01 0.97 0.91 1.07	0.66 0.69 0.61 0.74	16.0 16.0 15.1 16.9	1.88 1.85 1.72 2.01	1.8 1.7 1.5 2.0	0.33 0.33 0.30 0.36	8.7 8.8 7.8 9.7		
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound	0.01 0.01 <0.01 0.02															

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



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To: MINNESOTA STATE DEPARTMENT OF
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Sample Description	Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
P3780044 DUP Target Range - Lower Bound Upper Bound		DUPLICATES														
P3780045 DUP Target Range - Lower Bound Upper Bound																
P3780046 DUP Target Range - Lower Bound Upper Bound																
P3780052 DUP Target Range - Lower Bound Upper Bound																
P3780057 DUP Target Range - Lower Bound Upper Bound																
P3780050DUP DUP Target Range - Lower Bound Upper Bound		0.13 0.13 0.11 0.15	3.6 3.5 3.2 3.9	9.7 9.8 9.2 10.3	2.27 2.29 2.14 2.42	30.6 30.1 28.6 32.1	1.94 1.95 1.82 2.07	1 1 <1 2	175.0 172.5 165.0 182.5	0.2 0.2 <0.1 0.3	0.30 0.28 0.27 0.31	1.11 1.11 1.00 1.22	<0.5 <0.5 <0.5 1.0	0.14 0.13 0.12 0.15	0.28 0.28 0.22 0.34	128 125 115 138
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	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	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1
DUPLICATES																
P3780044 DUP Target Range - Lower Bound Upper Bound													<0.5 <0.5 <0.5 1.0	<0.5 <0.5 <0.5 1.0	35 33 31 37	107 102 98 111
P3780045 DUP Target Range - Lower Bound Upper Bound						0.4 0.3 0.2 0.5	0.06 0.06 0.05 0.07	<0.005 <0.005 <0.005 0.010	0.09 0.09 <0.05 0.10	0.3 0.3 <0.2 0.4	0.03 0.03 0.02 0.04					
P3780046 DUP Target Range - Lower Bound Upper Bound																
P3780052 DUP Target Range - Lower Bound Upper Bound												11.00 10.90 10.40 11.50				
P3780057 DUP Target Range - Lower Bound Upper Bound																
P3780050DUP DUP Target Range - Lower Bound Upper Bound		1 1 <1 2	9.1 9.1 8.1 10.1	0.93 0.94 0.86 1.01	65 65 60 70											
ORIGINAL DUP Target Range - Lower Bound Upper Bound												0.80 0.80 0.75 0.85				
ORIGINAL DUP Target Range - Lower Bound Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Zn ppm 2	C-GAS05 C % 0.05	C-GAS05 CO2 % 0.2	F-ELE81a F ppm 20	ME-ICP41 B ppm 10	ME-ICP61 Li ppm 10
DUPLICATES										
P3780044		<1	93	5	124					10
DUP		<1	93	6	121					20
Target Range - Lower Bound		<1	87	3	114					<10
Upper Bound		2	99	8	131					20
P3780045									<10	
DUP									<10	
Target Range - Lower Bound									<10	
Upper Bound									20	
P3780046								350		
DUP								340		
Target Range - Lower Bound								310		
Upper Bound								380		
P3780052										
DUP										
Target Range - Lower Bound										
Upper Bound										
P3780057										
DUP										
Target Range - Lower Bound										
Upper Bound										
P3780050DUP										
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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	Method Analyte Units LOR	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01
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		0.072 0.069 0.066 0.075	<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																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.004 0.006 0.004 0.006	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002												
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.003 0.003 0.002 0.004	<0.005 <0.005 <0.005 0.010	<0.001 <0.001 <0.001 0.002												

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Sample Description	Method Analyte Units LOR	ME-ICP06 BaO %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
		0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5
DUPLICATES																
ORIGINAL					23.7	6.6	150	0.03	2.59	1.40	0.87	13.7	2.30	2.3	0.50	1.9
DUP					22.0	6.4	150	0.03	2.62	1.36	0.90	13.1	2.39	2.2	0.49	2.0
Target Range - Lower Bound					21.2	5.7	130	0.02	2.42	1.28	0.81	12.6	2.18	1.9	0.46	1.4
Upper Bound					24.5	7.3	170	0.04	2.79	1.48	0.96	14.2	2.51	2.6	0.53	2.5
ORIGINAL					>10000	0.8	<10	5.31	<0.05	<0.03	0.91	0.9	0.25	<0.2	0.01	1.2
DUP					>10000	1.0	<10	4.95	<0.05	<0.03	0.26	1.3	0.26	<0.2	<0.01	1.3
Target Range - Lower Bound					9500	<0.5	<10	4.86	<0.05	<0.03	0.53	0.9	0.19	<0.2	<0.01	0.7
Upper Bound					>10000	1.0	20	5.40	0.10	0.06	0.64	1.3	0.32	0.4	0.02	1.8
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL					503	11.6	10	6.55	5.78	3.91	1.52	18.8	4.49	2.6	1.27	4.2
DUP					521	12.0	10	6.60	6.07	3.82	1.55	19.3	4.69	2.6	1.33	4.5
Target Range - Lower Bound					486	10.7	<10	6.24	5.58	3.64	1.43	18.0	4.31	2.3	1.23	3.6
Upper Bound					538	12.9	20	6.91	6.27	4.09	1.64	20.1	4.87	2.9	1.38	5.1
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	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
DUPLICATES																
ORIGINAL		0.15	16.2	6.8	1.18	1.1	2.17	1	122.0	1.2	0.40	0.05	<0.5	0.08	<0.05	794
DUP		0.18	15.7	6.5	1.15	1.0	2.10	1	118.0	1.1	0.42	0.07	<0.5	0.12	<0.05	752
Target Range - Lower Bound		0.15	15.0	6.2	1.08	0.8	2.00	<1	114.0	1.0	0.38	<0.05	<0.5	0.09	<0.05	729
Upper Bound		0.18	16.9	7.1	1.25	1.3	2.27	2	126.0	1.3	0.44	0.10	1.0	0.12	0.10	817
ORIGINAL		0.02	<0.2	0.5	0.08	3.1	0.15	3	2220	<0.1	0.02	0.07	38.7	<0.01	2.11	6
DUP		0.02	<0.2	0.7	0.11	2.0	0.25	4	2100	<0.1	0.02	0.11	71.2	<0.01	2.05	8
Target Range - Lower Bound		<0.01	<0.2	0.5	0.06	2.2	0.16	2	2050	<0.1	<0.01	<0.05	51.7	<0.01	1.93	<5
Upper Bound		0.03	0.4	0.7	0.13	2.9	0.24	5	2270	0.2	0.03	0.10	58.2	0.02	2.23	10
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL		0.55	2.8	10.2	1.94	54.4	3.61	1	43.7	0.2	0.87	0.21	<0.5	0.57	0.05	652
DUP		0.60	2.9	10.5	2.00	55.8	3.65	1	43.0	0.2	0.88	0.22	<0.5	0.59	<0.05	671
Target Range - Lower Bound		0.54	2.5	9.7	1.84	52.1	3.42	<1	41.1	<0.1	0.82	0.15	<0.5	0.54	<0.05	623
Upper Bound		0.61	3.2	11.0	2.10	58.1	3.84	2	45.6	0.3	0.93	0.28	1.0	0.62	0.10	700
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	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	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1
DUPLICATES																
ORIGINAL		<1	12.3	1.21	83											
DUP		<1	11.7	1.11	79											
Target Range - Lower Bound		<1	10.9	1.07	75											
Upper Bound		2	13.1	1.25	87											
ORIGINAL		15	0.5	0.06	2											
DUP		14	0.6	0.09	5											
Target Range - Lower Bound		13	<0.5	0.04	<2											
Upper Bound		16	1.0	0.11	4											
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL												3.40				
DUP												3.40				
Target Range - Lower Bound												3.22				
Upper Bound												3.58				
ORIGINAL		7	32.8	3.72	81											
DUP		7	32.7	3.83	83											
Target Range - Lower Bound		6	30.6	3.56	76											
Upper Bound		8	34.9	3.99	88											
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOR	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	C-GAS05	C-GAS05	F-ELE81a	ME-ICP41	ME-ICP61
		Mo	Ni	Pb	Zn	C	CO2	F	B	Li
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm
		1	1	2	2	0.05	0.2	20	10	10
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		0.29 1.1 0.29 1.1 0.23 0.8 0.35 1.4								
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										

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