Shea Clark Smith / MEG Labs, P.O. Box 18325, Reno, Nevada, USA 89511
www.SheaClarkSmith.com Tel: 775-849-2235 Email: SheaClarkSmith@aol.com

MEG Pt-Pd-Au Standards (updated: 25-MAR-12)

AVAILABLE in 50 gram Kraft Envelopes
Sold with Certificates of Assay for Pt-Pd-Au (n = 64 - 72 assays, 8 - 10 Different Laboratories)
Cost: $7.50 per envelope

MEG-Pt.10.04 (BLANK)

PLATINUM (ppm) 64 Assays, 9 Labs

SAMPLES AVG = 0.005	MAX = 0.008
LABS AVG = 0.005	MIN = 0.003
MEAN + 1SD = 0.007	STDEV = 0.002
MEAN - 1SD = 0.003	%RSD = 37.6%

95% Confidence = 0.001 - 0.009

PALLADIUM (ppm) 69 Assays, 10 Labs

SAMPLES AVG = .006	MAX = 0.015
LABS AVG = .006	MIN = 0.003
MEAN + 1SD = 0.010	STDEV = 0.004
MEAN - 1SD = 0.002	%RSD = 55.6%

95% Confidence = -0.001 - 0.013

GOLD (ppm) 61 Assays, 8 Labs

SAMPLES AVG = 0.005	MAX = 0.006
LABS AVG = 0.004	MIN = 0.001
MEAN + 1SD = 0.006	STDEV = 0.002
MEAN - 1SD = 0.002	%RSD = 43.8%

95% Confidence = 0.001 - 0.008

Characterization Data (4-Acid / ICPMS)

Rh	Ru	Ir	Ce	Cr	Cu	Fe	La	Mg	Mn	Ni	Sr	Zn
ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm
2	<2	<2	8	1050	20	515	510	21	890	2020	8	45

Source = Barren Host Rock

MEG-Pt.10.05 (Low Grade)

PLATINUM (ppm) 66 Assays, 10 Labs

SAMPLES AVG = 0.045	MAX = 0.052
LABS AVG = 0.044	MIN = 0.033
MEAN + 1SD = 0.050	STDEV = 0.006
MEAN - 1SD = 0.038	%RSD = 12.9%

95% Confidence = 0.032 - 0.055

PALLADIUM (ppm) 68 Assays, 10 Labs

SAMPLES AVG = 0.227	MAX = 0.240
LABS AVG = 0.223	MIN = 0.191
MEAN + 1SD = 0.239	STDEV = 0.016
MEAN - 1SD = 0.207	%RSD = 7.2%

95% Confidence = 0.191 - 0.256

GOLD (ppm) 64 Assays, 9 Labs

SAMPLES AVG = 0.025	MAX = 0.030
LABS AVG = 0.024	MIN = 0.016
MEAN + 1SD = 0.028	STDEV = 0.004
MEAN - 1SD = 0.020	%RSD = 18.4%

95% Confidence = 0.015 - 0.033

Characterization Data (4-Acid / ICPMS)

Rh	Ru	Ir	Ce	Cr	Cu	Fe	La	Mg	Mn	Ni	Sr	Zn
ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm
3	<2	<2	40	900	30	4.8	23	17	870	1650	43	45

Source = Stillwater Mine, MT + Barren Host Rock

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MEG-Pt.10.06

PLATINUM (ppm) 67 Assays, 10 Labs

SAMPLES AVG = 0.072	MAX = 0.081
LABS AVG = 0.071	MIN = 0.061
MEAN + 1SD = 0.077	STDEV = 0.006
MEAN - 1SD = 0.065	%RSD = 8.4%

95% Confidence = 0.059 - 0.083

PALLADIUM (ppm) 72 Assays, 10 Labs

SAMPLES AVG = 0.386	MAX = 0.412
LABS AVG = 0.382	MIN = 0.312
MEAN + 1SD = 0.411	STDEV = 0.029
MEAN - 1SD = 0.353	%RSD = 7.5%

95% Confidence = 0.325 - 0.440

GOLD (ppm) 64 Assays, 9 Labs

SAMPLES AVG = 0.039	MAX = 0.048
LABS AVG = 0.040	MIN = 0.029
MEAN + 1SD = 0.046	STDEV = 0.006
MEAN - 1SD = 0.034	%RSD = 14.2%

95% Confidence = 0.029 - 0.051

Characterization Data (4-Acid / ICPMS)

Rh	Ru	Ir	Ce	Cr	Cu	Fe	La	Mg	Mn	Ni	Sr	Zn
ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm
4	<2	<2	178	630	45	4.5	98	14	1010	1380	135	57

Source = Stillwater Mine, MT + Barren Host Rock

MEG-Pt.09.11

PLATINUM (ppm) 67 Assays, 10 Labs

SAMPLES AVG = 0.176	MAX = 0.189
LABS AVG = 0.176	MIN = 0.166
MEAN + 1SD = 0.184	STDEV = 0.008
MEAN - 1SD = 0.168	%RSD = 4.5%

95% Confidence = 0.160 - 0.192

PALLADIUM (ppm) 72 Assays, 10 Labs

SAMPLES AVG = 0.995	MAX = 1.039
LABS AVG = 0.980	MIN = 0.910
MEAN + 1SD = 1.019	STDEV = 0.039
MEAN - 1SD = 0.941	%RSD = 3.9%

95% Confidence = 0.903 - 1.058

GOLD (ppm) 72 Assays, 10 Labs

SAMPLES AVG = 0.085	MAX = 0.102
LABS AVG = 0.084	MIN = 0.065
MEAN + 1SD = 0.094	STDEV = 0.010
MEAN - 1SD = 0.074	%RSD = 11.7%

95% Confidence = 0.065 - 0.104

Characterization Data (4-Acid / ICPMS)

Rh	Ru	Ir	Ce	Cr	Cu	Fe	La	Mg	Mn	Ni	Sr	Zn
ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm
7	5	2	<5	130	73	3.3	1.5	3.5	550	360	117	23

Source = Stillwater Mine, MT (East Boulder Tails)

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MEG-Pt.10.01

PLATINUM (ppm) 70 Assays, 10 Labs

SAMPLES AVG = 0.336	MAX = 0.370
LABS AVG = 0.333	MIN = 0.299
MEAN + 1SD = 0.353	STDEV = 0.020
MEAN - 1SD = 0.313	%RSD = 6.1%

95% Confidence = 0.293 - 0.374

PALLADIUM (ppm) 70 Assays, 10 Labs

SAMPLES AVG = 1.730	MAX = 1.826
LABS AVG = 1.693	MIN = 1.500
MEAN + 1SD = 1.799	STDEV = 0.106
MEAN - 1SD = 1.587	%RSD = 6.3%

95% Confidence = 1.481 - 1.906

GOLD (ppm) 65 Assays, 9 Labs

SAMPLES AVG = 0.326	MAX = 0.354
LABS AVG = 0.321	MIN = 0.283
MEAN + 1SD = 0.344	STDEV = 0.023
MEAN - 1SD = 0.298	%RSD = 7.02%

95% Confidence = 0.276 - 0.366

Characterization Data (4-Acid / ICPMS)

Rh	Ru	Ir	Ce	Cr	Cu	Fe	La	Mg	Mn	Ni	Sr	Zn
ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm
5	<2	<2	25	110	80	2.9	16	3.3	590	350	120	25

Source = Stillwater Mine, MT (East Boulder Tails)

MEG-Pt.10.02

PLATINUM (ppm) 70 Assays, 10 Labs

SAMPLES AVG = 0.703	MAX = 0.736
LABS AVG = 0.693	MIN = 0.603
MEAN + 1SD = 0.734	STDEV = 0.041
MEAN - 1SD = 0.652	%RSD = 5.9%

95% Confidence = 0.610 - 0.775

PALLADIUM (ppm) 71 Assays, 10 Labs

SAMPLES AVG = 3.829	MAX = 4.080
LABS AVG = 3.726	MIN = 3.152
MEAN + 1SD = 4.004	STDEV = 0.278
MEAN - 1SD = 3.448	%RSD = 7.46%

95% Confidence = 3.170 - 4.282

GOLD (ppm) 66 Assays, 9 Labs

SAMPLES AVG = 0.624	MAX = 0.657
LABS AVG = 0.612	MIN = 0.543
MEAN + 1SD = 0.658	STDEV = 0.046
MEAN - 1SD = 0.566	%RSD = 7.6%

95% Confidence = 0.519 - 0.704

Characterization Data (4-Acid / ICPMS)

Rh	Ru	Ir	Ce	Cr	Cu	Fe	La	Mg	Mn	Ni	Sr	Zn
ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm
5	<2	<2	5	115	80	3.1	2.5	3.4	550	340	115	22

Source = Stillwater Mine, MT (East Boulder Tails)

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MEG-Pt.10.03 (High Grade)

PLATINUM (ppm) — 68 Assays, 10 Labs

SAMPLES AVG = 1.044	MAX = 1.090
LABS AVG = 1.031	MIN = 0.928
MEAN + 1SD = 1.088	STDEV = 0.057
MEAN - 1SD = 0.974	%RSD = 5.5%

95% Confidence = 0.918 - 1.144

PALLADIUM (ppm) — 69 Assays, 10 Labs

SAMPLES AVG = 4.573	MAX = 4.934
LABS AVG = 4.469	MIN = 3.868
MEAN + 1SD = 4.784	STDEV = 0.315
MEAN - 1SD = 4.154	%RSD = 7.05%

95% Confidence = 3.839 - 5.099

GOLD (ppm) — 69 Assays, 10 Labs

SAMPLES AVG = 0.937	MAX = 1.043
LABS AVG = 0.930	MIN = 0.838
MEAN + 1SD = 0.989	STDEV = 0.059
MEAN - 1SD = 0.871	%RSD = 6.4%

95% Confidence = 0.811 - 1.049

Characterization Data (4-Acid / ICPMS)

Rh	Ru	Ir	Ce	Cr	Cu	Fe	La	Mg	Mn	Ni	Sr	Zn
ppb	ppb	ppb	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm
5	<2	<2	<5	115	80	3.1	2	3.4	550	350	115	22

Source = Stillwater Mine, MT (East Boulder Tails)