Lone Pine Analytical

Certificate of Analysis

Customer: Ron Murphy
Contact: Ron@blackdiamondex.com
Analysis: Precious metals* by ICP-MS
WO#: 2209004-1
Invoice #: 4734 paid
Sample ID: Head Feed 700oz/Ton
Matrix: Concentrate
Received: September 16, 2022; 3:05 PM
Analysis Completed: September 20, 2022; 5:30 PM
Report Created: September 20, 2022; 7:00 PM

Element	Unit	Concentration (Duplicates)	Report Limit
Au	ppm	(1) 42.9 (2) 47.1	0.050
Pd	ppm	(1) 6.31 (2) 5.90	0.050
Pt	ppm	(1) ND (2) ND	0.050
Rh	ppm	(1) ND (2) ND	0.050
Ir	ppm	(1) ND (2) ND	0.050
Os	ppm	(1) ND (2) ND	0.050
Ru	ppm	(1) 0.094 (2) 0.558	0.050

Notes:

i) Two distinct samples were sampled (~200 mg), digested, filtered, diluted, and analyzed.
ii) For the digestion, we used [1 mL HF: 4.5 mL Nitric Acid: 4.5 mL HCl].
iii) The samples were digested in a microwave in sealed PTFE tubes, where the temperature reached 200 C with a total cycle time of 40 minutes.
iv) Bismuth (Bi) was used the internal standard. A three-point calibration, plotted through zero was used with excellent linear correlation for each element. Thus, we used an internal and external standards (instrument calibration).

2328 E. Van Buren Street
Unit#102
Phoenix, AZ 85006
480-797-3353

David Luttrull, Ph.D.
Lab Director

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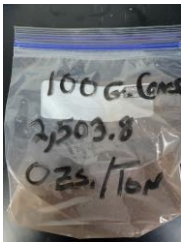
Certificate of Analysis

Customer: Ron Murphy
Contact: Ron@blackdiamondex.com
Analysis: Precious metals* by ICP-MS
WO#: 2209004-2
Invoice #: 4734 paid
Sample ID: 100 gm 2503.8oz/Ton Conc
Matrix: Concentrate
Received: September 16, 2022; 3:05 PM
Analysis Completed: September 20, 2022; 5:30 PM
Report Created: September 20, 2022; 7:00 PM

Element	Unit	Concentration (Duplicates)	Report Limits
Au	ppm	(1) 35.7 (2) 31.5	0.050
Pd	ppm	(1) 3.52 (2) 4.46	0.050
Pt	ppm	(1) ND (2) ND	0.050
Rh	ppm	(1) ND (2) ND	0.050
Ir	ppm	(1) ND (2) ND	0.050
Os	ppm	(1) ND (2) ND	0.050
Ru	ppm	(1) 0.394 (2) 0.592	0.050

Notes:

v) Two distinct samples were sampled (~200 mg), digested, filtered, diluted, and analyzed.
vi) For the digestion, we used [1 mL HF: 4.5 mL Nitric Acid: 4.5 mL HCl].
vii) The samples were digested in a microwave in sealed PTFE tubes, where the temperature reached 200 C with a total cycle time of 40 minutes.
viii) Bismuth (Bi) was used the internal standard. A three-point calibration, plotted through zero was used with excellent linear correlation for each element. Thus, we used an internal and external standards (instrument calibration).



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Certificate of Analysis

Customer: Ron Murphy
Contact: Ron@blackdiamondex.com
Analysis: Precious metals* by ICP-MS
WO#: 2209004-3
Invoice #: 4734 paid
Sample ID: #1 Table Cons. Original
Matrix: Concentrate
Received: September 16, 2022; 3:05 PM
Analysis Completed: September 20, 2022; 5:30 PM
Report Created: September 20, 2022; 7:00 PM

Element	Unit	Concentration (Duplicates)	Report Limits
Au	ppm	(1) 42.1 (2) 33.1	0.050
Pd	ppm	(1) 53.3 (2) 48.4	0.050
Pt	ppm	(1) 0.168 (2) 0.301	0.050
Rh	ppm	(1) ND (2) ND	0.050
Ir	ppm	(1) ND (2) ND	0.050
Os	ppm	(1) ND (2) ND	0.050
Ru	ppm	(1) ND (2) ND	0.050

Notes:

ix) Two distinct samples were sampled (~200 mg), digested, filtered, diluted, and analyzed.
x) For the digestion, we used [1 mL HF: 4.5 mL Nitric Acid: 4.5 mL HCl].
xi) The samples were digested in a microwave in sealed PTFE tubes, where the temperature reached 200 C with a total cycle time of 40 minutes.
xii) Bismuth (Bi) was used the internal standard. A three-point calibration, plotted through zero was used with excellent linear correlation for each element. Thus, we used an internal and external standards (instrument calibration).

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Certificate of Analysis

Customer: Ron Murphy
Contact: Ron@blackdiamondex.com
Analysis: Precious metals* by ICP-MS
WO#: 2209004-4
Invoice #: 4734 paid
Sample ID: #1 Table Cons from Mill
Matrix: Concentrate
Received: September 16, 2022; 3:05 PM
Analysis Completed: September 20, 2022; 5:30 PM
Report Created: September 20, 2022; 7:00 PM

Element	Unit	Concentration (Duplicates)	Report Limits
Au	ppm	(1) 54.5 (2) 11.9	0.050
Pd	ppm	(1) 73.9 (2) 70.4	0.050
Pt	ppm	(1) 0.301 (2) 0.275	0.050
Rh	ppm	(1) ND (2) ND	0.050
Ir	ppm	(1) 0.063 (2) ND	0.050
Os	ppm	(1) ND (2) ND	0.050
Ru	ppm	(1) ND (2) 0.059	0.050

Notes:

xiii) Two distinct samples were sampled (~200 mg), digested, filtered, diluted, and analyzed.
xiv) For the digestion, we used [1 mL HF: 4.5 mL Nitric Acid: 4.5 mL HCl].
xv) The samples were digested in a microwave in sealed PTFE tubes, where the temperature reached 200 C with a total cycle time of 40 minutes.
xvi) Bismuth (Bi) was used the internal standard. A three-point calibration, plotted through zero was used with excellent linear correlation for each element. Thus, we used an internal and external standards (instrument calibration).

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Certificate of Analysis

Customer: Ron Murphy
Contact: Ron@blackdiamondex.com
Analysis: Precious metals* by ICP-MS
WO#: 2209004-5
Invoice #: 4734 paid
Sample ID: #2 Table Cons from Mill
Matrix: Concentrate
Received: September 16, 2022; 3:05 PM
Analysis Completed: September 20, 2022; 5:30 PM
Report Created: September 20, 2022; 7:00 PM

Element	Unit	Concentration (Duplicates)	Report Limits
Au	ppm	(1) 36.3 (2) 28.1	0.050
Pd	ppm	(1) 24.3 (2) 22.5	0.050
Pt	ppm	(1) ND (2) ND	0.050
Rh	ppm	(1) ND (2) ND	0.050
Ir	ppm	(1) ND (2) ND	0.050
Os	ppm	(1) ND (2) ND	0.050
Ru	ppm	(1) 0.418 (2) 0.810	0.050

Notes:

xvii) Two distinct samples were sampled (~200 mg), digested, filtered, diluted, and analyzed.

xviii) For the digestion, we used [1 mL HF: 4.5 mL Nitric Acid: 4.5 mL HCl].

xix) The samples were digested in a microwave in sealed PTFE tubes, where the temperature reached 200 C with a total cycle time of 40 minutes.

xx) Bismuth (Bi) was used the internal standard. A three-point calibration, plotted through zero was used with excellent linear correlation for each element. Thus, we used an internal and external standards (instrument calibration).

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Certificate of Analysis

Customer: Ron Murphy
Contact: Ron@blackdiamondex.com
Analysis: Precious metals* by ICP-MS
WO#: 2209004-6
Invoice #: 4734 paid
Sample ID: Tails
Matrix: Concentrate
Received: September 16, 2022; 3:05 PM
Analysis Completed: September 20, 2022; 5:30 PM
Report Created: September 20, 2022; 7:00 PM

Element	Unit	Concentration (Duplicates)	Report Limits
Au	ppm	(1) 37.8 (2) 22.0	0.050
Pd	ppm	(1) 22.4 (2) 19.1	0.050
Pt	ppm	(1) ND (2) ND	0.050
Rh	ppm	(1) ND (2) ND	0.050
Ir	ppm	(1) ND (2) ND	0.050
Os	ppm	(1) ND (2) ND	0.050
Ru	ppm	(1) 0.198 (2) 0.494	0.050

Notes:

xxi) Two distinct samples were sampled (~200 mg), digested, filtered, diluted, and analyzed.
xxii) For the digestion, we used [1 mL HF: 4.5 mL Nitric Acid: 4.5 mL HCl].
xxiii) The samples were digested in a microwave in sealed PTFE tubes, where the temperature reached 200 C with a total cycle time of 40 minutes.
xxiv) Bismuth (Bi) was used the internal standard. A three-point calibration, plotted through zero was used with excellent linear correlation for each element. Thus, we used an internal and external standards (instrument calibration).

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Certificate of Analysis

Customer: Ron Murphy
Contact: Ron@blackdiamondex.com
Analysis: Precious metals* by ICP-MS
WO#: 2209004-7
Invoice #: 4734 paid
Sample ID: Dorie Bead
Matrix: Metal
Received: September 16, 2022; 3:05 PM
Analysis Completed: September 20, 2022; 5:30 PM
Report Created: September 20, 2022; 7:00 PM

Element	Unit	Concentration (Duplicates)	Report Limits
Au	ppm	(1) 90.1 (2) 55.9	0.050
Pd	ppm	(1) 2.13 (2) 2.61	0.050
Pt	ppm	(1) ND (2) ND	0.050
Rh	ppm	(1) ND (2) ND	0.050
Ir	ppm	(1) ND (2) ND	0.050
Os	ppm	(1) ND (2) ND	0.050
Ru	ppm	(1) 0.463 (2) ND	0.050

Notes:

xxv) Two distinct samples were sampled (~200 mg), digested, filtered, diluted, and analyzed.
xxvi) For the digestion, we used [1 mL HF: 4.5 mL Nitric Acid: 4.5 mL HCl].
xxvii) The samples were digested in a microwave in sealed PTFE tubes, where the temperature reached 200 C with a total cycle time of 40 minutes.
xxviii) Bismuth (Bi) was used the internal standard. A three-point calibration, plotted through zero was used with excellent linear correlation for each element. Thus, we used an internal and external standards (instrument calibration).

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