



PLATINUM

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RUSTENBURG PLATINUM MINES LIMITED

RPM Nickel Cathode  
CERTIFICATE OF ANALYSIS

CUSTOMER ORDER NUMBER:

ORDER NUMBER: 7193

DATE: 2018/07/04

CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %		
2018061711	1.923	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018061712	1.944	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061713	1.938	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061714	1.915	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061715	1.904	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061716	1.924	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061717	1.911	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061718	1.930	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061719	1.929	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061720	1.919	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061721	1.925	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS

TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS

LABORATORY MANAGER

PROCESS SPECIALIST P&T



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**RPM Nickel Cathode  
CERTIFICATE OF ANALYSIS**

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CUSTOMER ORDER NUMBER: 7193  
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DATE: 2018/07/04

**CHARACTERISTICS**

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %	
2018061722	1.934	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018061723	1.912	99.99	0.0041	0.0006	0.0004	0.0001	0.0027	0.0013	0.0006	0.0069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

**Total: 25.008**

Elements marked \* are not analyzed per batch but a weekly composite is analyzed to confirm the stated concentrations

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DATE: 2018/07/04

CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %		
2018062422	1.931	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018062423	1.918	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062424	1.935	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062425	1.930	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062426	1.933	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062427	1.932	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062428	1.942	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062429	1.901	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062430	1.921	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062431	1.911	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062432	1.886	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS

TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS

LABORATORY MANAGER

PROCESS SPECIALIST P&T



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# RUSTENBURG PLATINUM MINES LIMITED

## RPM Nickel Cathode CERTIFICATE OF ANALYSIS

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CUSTOMER ORDER NUMBER:

ORDER NUMBER: 7193

DATE: 2018/07/04

### CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %	
2018062433	1.954	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062434	1.937	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Total: 25.031

Elements marked \* are not analyzed per batch but a weekly composite is analyzed to confirm the stated concentrations

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## RPM Nickel Cathode CERTIFICATE OF ANALYSIS

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CUSTOMER ORDER NUMBER:

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DATE: 2018/07/04

### CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %		
2018062409	1.921	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018062410	1.913	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062411	1.933	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062412	1.933	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062413	1.923	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062414	1.931	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062415	1.910	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062416	1.907	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062417	1.934	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062418	1.942	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062419	1.914	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

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LABORATORY MANAGER

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**CHARACTERISTICS**

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %	
2018062420	1.893	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062421	1.945	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Total: 24.999

Elements marked \* are not analyzed per batch but a weekly composite is analyzed to confirm the stated concentrations

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CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %		
2018062132	1.931	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018062133	1.932	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062134	1.908	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062135	1.930	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062136	1.921	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062137	1.911	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062201	1.908	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062202	1.918	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062203	1.936	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062204	1.935	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062205	1.927	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

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LABORATORY MANAGER

PROCESS SPECIALIST P&T



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**CHARACTERISTICS**

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %	
2018062206	1.939	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062207	1.912	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

**Total: 25.008**

Elements marked \* are not analyzed per batch but a weekly composite is analyzed to confirm the stated concentrations

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2018062237	1.626	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018062238	1.648	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062239	1.648	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062240	1.682	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062241	1.679	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062242	1.661	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062243	1.682	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062244	1.654	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062245	1.686	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062246	1.626	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062301	1.670	99.98	0.0099	0.0004	0.0006	0.0002	0.0079	0.0024	0.0002	0.0034	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

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LABORATORY MANAGER

PROCESS SPECIALIST P&T



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CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %	
2018062302	1.661	99.98	0.0099	0.0004	0.0006	0.0002	0.0079	0.0024	0.0002	0.0034	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062303	1.661	99.98	0.0099	0.0004	0.0006	0.0002	0.0079	0.0024	0.0002	0.0034	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062304	1.661	99.98	0.0099	0.0004	0.0006	0.0002	0.0079	0.0024	0.0002	0.0034	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062305	1.763	99.98	0.0099	0.0004	0.0006	0.0002	0.0079	0.0024	0.0002	0.0034	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Total: 25.008

Elements marked \* are not analyzed per batch but a weekly composite is analyzed to confirm the stated concentrations

ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS  
TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS

LABORATORY MANAGER

PROCESS SPECIALIST P&T



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**RUSTENBURG PLATINUM MINES LIMITED**

**RPM Nickel Cathode  
CERTIFICATE OF ANALYSIS**

Page: 1 of 2

CUSTOMER ORDER NUMBER:

ORDER NUMBER: **7193**

DATE: **2018/07/04**

**CHARACTERISTICS**

Batch No.	Mass(t) Net	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %		
2018062221	1.561	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018062222	1.581	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062223	1.553	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062224	1.574	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062225	1.546	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062226	1.570	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062227	1.567	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062228	1.563	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062229	1.562	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062230	1.550	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062231	1.549	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

**ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS**

**TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS**

**LABORATORY MANAGER**

**PROCESS SPECIALIST P&T**



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RUSTENBURG PLATINUM MINES LIMITED

RPM Nickel Cathode  
CERTIFICATE OF ANALYSIS

CUSTOMER ORDER NUMBER:

ORDER NUMBER: 7193

DATE:

2018/07/04

CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %		
2018062232	1.561	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018062233	1.535	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062234	1.586	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062235	1.559	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062236	1.616	99.98	0.0095	0.0006	0.0006	0.0001	0.0070	0.0007	0.0004	0.0085	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Total: 25.033

Elements marked \* are not analyzed per batch but a weekly composite is analyzed to confirm the stated concentrations

ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS  
TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS

LABORATORY MANAGER

PROCESS SPECIALIST P&T



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RUSTENBURG PLATINUM MINES LIMITED

RPM Nickel Cathode  
CERTIFICATE OF ANALYSIS

CUSTOMER ORDER NUMBER:

ORDER NUMBER: 7193

DATE:

2018/07/04

CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %		
2018062101	1.934	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018062102	1.913	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062103	1.927	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062104	1.911	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062105	1.938	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062106	1.927	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062107	1.918	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062108	1.914	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062109	1.910	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062110	1.931	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062111	1.922	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS

TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS

LABORATORY MANAGER

PROCESS SPECIALIST P&T



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**RUSTENBURG PLATINUM MINES LIMITED**

**RPM Nickel Cathode  
CERTIFICATE OF ANALYSIS**

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CUSTOMER ORDER NUMBER:

ORDER NUMBER: 7193

DATE: 2018/07/04

**CHARACTERISTICS**

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %	
2018062112	1.938	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062113	1.934	99.98	0.0096	0.0007	0.0007	0.0003	0.0077	0.0019	0.0002	0.0040	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

**Total: 25.017**

Elements marked \* are not analyzed per batch but a weekly composite is analyzed to confirm the stated concentrations

**ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS  
TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS**

**LABORATORY MANAGER**

**PROCESS SPECIALIST P&T**



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RPM Nickel Cathode  
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CUSTOMER ORDER NUMBER:

ORDER NUMBER: 7193

DATE: 2018/07/04

CHARACTERISTICS

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %
2018062435	1.924	99.98	0.0091	0.0005	0.0005	0.0002	0.0076	0.0019	0.0001	0.0035	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062501	1.913	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062502	1.916	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062503	1.910	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062504	1.918	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062505	1.925	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062506	1.933	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062507	1.938	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062508	1.915	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062509	1.951	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2018062510	1.930	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS

TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS

LABORATORY MANAGER

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**RPM Nickel Cathode  
CERTIFICATE OF ANALYSIS**

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CUSTOMER ORDER NUMBER:

ORDER NUMBER: 7193

DATE: 2018/07/04

**CHARACTERISTICS**

Batch No.	Mass(t) Nett	Ni %	Co %	Cu %	Fe %	Pb %	S %	Se %	Zn %	C %	P* %	Mn* %	Si* %	As* %	Sb* %	Bi* %	Sn* %		
2018062511	1.909	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2018062512	1.928	99.98	0.0137	0.0002	0.0007	0.0007	0.0052	0.0016	0.0004	0.0095	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

**Total: 25.010**

Elements marked \* are not analyzed per batch but a weekly composite is analyzed to confirm the stated concentrations

**ALL OTHER IMPURITIES MEET THE CHEMICAL REQUIREMENTS  
TOTAL MEASURED IMPURITIES DO NOT EXCEED 1000 PARTS PER MILLIONS**

**LABORATORY MANAGER**

**PROCESS SPECIALIST P&T**