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Lab Ref BT086112

Client Ref **956-1006**

Project *

Cost Code

Status Final

Received 17/01/19

Reported 19/02/19

Samples 51

First Sample 956

Last Sample 1006

Pages 8

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Notes

Authorised by

Wayne Taylor

Laboratory Manager

On behalf of:

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Lab Ref BT086112
 Client Ref **956-1006**
 Project *
 Reported 19/02/19
 Status Final
 Page Page 2 of 8

ANALYTICAL REPORT

| Scheme | XRF75E | XRF75E | XRF75E | XRF75E | XRF75E | XRF75E |
|-----------------|--------|--------|--------|--------|--------|--------|
| Units | % | % | % | % | % | % |
| Detection Limit | 0.01 | 0.01 | 0.1 | 0.1 | 0.01 | 0.1 |
| Upper Limit | 90 | 90 | 90 | 90 | 20 | 50 |
| | Sn | As | Fe | S | Mn | MgO |
| 956 | <0.01 | <0.01 | <0.1 | <0.1 | <0.01 | <0.1 |
| 957 | <0.01 | <0.01 | 11.0 | 0.3 | 2.91 | 9.8 |
| 958 | 0.02 | 0.02 | 14.5 | 8.9 | 0.13 | 2.2 |
| 959 | <0.01 | <0.01 | 7.1 | 0.2 | 0.76 | 11.9 |
| 960 | <0.01 | <0.01 | 20.7 | 1.4 | 4.81 | 6.6 |
| 961 | <0.01 | <0.01 | 5.8 | 1.0 | 0.62 | 12.4 |
| 962 | <0.01 | 0.04 | 19.2 | 0.5 | 5.51 | 6.5 |
| 963 | <0.01 | <0.01 | 31.7 | 0.7 | 8.13 | 0.8 |
| 964 | <0.01 | <0.01 | 31.8 | 1.5 | 6.44 | 0.4 |
| 965 | <0.01 | <0.01 | 32.7 | 1.1 | 6.05 | 0.6 |
| 966 | <0.01 | <0.01 | 30.9 | 1.1 | 5.55 | 0.5 |
| 967 | <0.01 | <0.01 | 33.9 | 1.1 | 7.33 | 1.1 |
| 968 | <0.01 | <0.01 | 32.4 | 0.9 | 8.11 | 1.7 |
| 969 | <0.01 | <0.01 | 29.0 | 5.8 | 6.87 | 1.3 |
| 970 | <0.01 | 0.01 | 27.7 | 9.1 | 6.72 | 1.3 |
| 971 | <0.01 | <0.01 | 36.4 | 2.4 | 8.90 | 2.1 |
| 972 | <0.01 | <0.01 | 35.9 | 0.3 | 9.42 | 2.7 |
| 973 | 0.04 | 0.02 | 36.2 | 0.7 | 8.93 | 2.2 |
| 974 | <0.01 | <0.01 | 35.6 | 0.4 | 9.86 | 2.3 |
| 975 | <0.01 | <0.01 | 37.8 | 1.2 | 9.50 | 2.4 |
| 976 | <0.01 | <0.01 | 38.0 | 0.8 | 9.49 | 2.4 |
| 977 | <0.01 | <0.01 | 37.6 | 1.1 | 9.34 | 2.3 |
| 978 | <0.01 | <0.01 | 31.6 | 0.9 | 6.84 | 1.6 |
| 979 | <0.01 | <0.01 | 34.6 | 1.3 | 7.85 | 1.7 |
| 980 | <0.01 | <0.01 | 35.5 | 0.8 | 7.75 | 1.7 |
| 981 | <0.01 | <0.01 | 0.5 | <0.1 | 0.12 | <0.1 |
| 982 | <0.01 | <0.01 | 36.8 | 0.4 | 9.08 | 2.2 |
| 983 | <0.01 | <0.01 | 35.1 | 0.6 | 8.54 | 1.9 |
| 984 | <0.01 | <0.01 | 14.1 | 9.0 | 0.25 | 2.1 |
| 985 | <0.01 | <0.01 | 34.6 | 1.0 | 8.41 | 2.1 |
| 986 | <0.01 | <0.01 | 33.0 | 1.0 | 7.55 | 2.1 |
| 987 | <0.01 | 0.01 | 33.9 | 0.8 | 7.84 | 2.2 |
| 988 | <0.01 | 0.01 | 35.4 | 0.4 | 8.58 | 1.8 |
| 989 | <0.01 | <0.01 | 37.4 | 0.9 | 8.40 | 1.8 |
| 990 | <0.01 | 0.01 | 34.3 | 0.4 | 8.20 | 2.1 |
| 991 | <0.01 | <0.01 | 34.1 | 1.0 | 8.68 | 2.2 |
| 992 | <0.01 | <0.01 | 34.0 | 2.3 | 8.67 | 2.3 |
| 993 | <0.01 | <0.01 | 12.6 | 0.7 | 3.39 | 9.2 |

- not analysed / -- element not determined / I.S. insufficient sample / L.N.R. listed not received

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Lab Ref BT086112
 Client Ref **956-1006**
 Project *
 Reported 19/02/19
 Status Final
 Page Page 3 of 8

ANALYTICAL REPORT

| | XRF75E % 0.01 90 Sn | XRF75E % 0.01 90 As | XRF75E % 0.1 90 Fe | XRF75E % 0.1 90 S | XRF75E % 0.01 20 Mn | XRF75E % 0.1 50 MgO |
|------|---------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|---------------------------------|
| 994 | <0.01 | <0.01 | 34.3 | 0.4 | 6.43 | 3.3 |
| 995 | <0.01 | <0.01 | 36.8 | 0.2 | 8.45 | 2.4 |
| 996 | <0.01 | <0.01 | 31.1 | 0.6 | 4.23 | 3.3 |
| 997 | <0.01 | <0.01 | 37.6 | 0.3 | 7.01 | 1.4 |
| 998 | <0.01 | <0.01 | 38.7 | 0.1 | 9.37 | 2.5 |
| 999 | <0.01 | <0.01 | 39.7 | <0.1 | 10.01 | 2.6 |
| 1000 | <0.01 | <0.01 | 1.1 | <0.1 | 0.19 | <0.1 |
| 1001 | <0.01 | <0.01 | 39.8 | 0.3 | 8.86 | 2.1 |
| 1002 | <0.01 | <0.01 | 37.9 | 0.5 | 9.21 | 2.4 |
| 1003 | <0.01 | <0.01 | 24.0 | 2.5 | 4.22 | 1.0 |
| 1004 | <0.01 | <0.01 | 13.3 | 2.8 | 1.36 | 0.7 |
| 1005 | <0.01 | <0.01 | 19.1 | 1.9 | 1.10 | 1.0 |
| 1006 | <0.01 | <0.01 | 19.6 | 1.8 | 1.13 | 0.9 |

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Lab Ref BT086112
 Client Ref **956-1006**
 Project *
 Reported 19/02/19
 Status Final
 Page Page 4 of 8

ANALYTICAL REPORT

| Scheme | XRF75E | XRF75E | XRF75E | XRF75E | XRF75E | AAS40Q |
|-----------------|--------|--------|--------|--------|--------|--------|
| Units | % | % | % | % | % | PPM |
| Detection Limit | 0.1 | 0.01 | 0.01 | 0.01 | 0.01 | 2 |
| Upper Limit | 50 | 5 | 50 | 5 | 5 | 200 |
| | Ca | WO3 | Cu | Pb | Zn | Ag |
| 956 | <0.1 | <0.01 | <0.01 | <0.01 | <0.01 | <2 |
| 957 | 15.9 | <0.01 | <0.01 | 0.01 | 0.17 | <2 |
| 958 | 4.2 | <0.01 | 0.28 | 1.06 | 2.57 | 23 |
| 959 | 21.0 | <0.01 | <0.01 | <0.01 | 0.05 | <2 |
| 960 | 11.7 | <0.01 | <0.01 | 0.24 | 1.59 | <2 |
| 961 | 19.9 | <0.01 | <0.01 | 0.15 | 0.20 | <2 |
| 962 | 10.9 | <0.01 | <0.01 | 0.27 | 1.93 | <2 |
| 963 | 2.1 | <0.01 | <0.01 | 0.72 | 2.92 | <2 |
| 964 | 1.4 | <0.01 | <0.01 | 0.72 | 1.75 | <2 |
| 965 | 1.2 | <0.01 | <0.01 | 0.26 | 1.22 | <2 |
| 966 | 1.1 | <0.01 | <0.01 | 0.39 | 1.00 | <2 |
| 967 | 0.9 | <0.01 | <0.01 | 0.78 | 1.42 | 3 |
| 968 | 0.5 | <0.01 | <0.01 | 0.74 | 0.83 | 2 |
| 969 | 0.5 | 0.01 | <0.01 | 2.63 | >5.00 | 20 |
| 970 | 0.5 | 0.03 | 0.02 | >5.00 | >5.00 | 58 |
| 971 | 0.5 | <0.01 | <0.01 | 1.38 | 3.38 | 10 |
| 972 | 0.6 | <0.01 | <0.01 | 0.41 | 0.33 | <2 |
| 973 | 0.6 | <0.01 | <0.01 | 0.27 | 0.74 | 2 |
| 974 | 0.6 | <0.01 | <0.01 | 0.14 | 0.66 | <2 |
| 975 | 0.4 | <0.01 | <0.01 | 0.81 | 1.66 | 6 |
| 976 | 0.4 | <0.01 | <0.01 | 1.03 | 1.01 | 4 |
| 977 | 0.4 | <0.01 | <0.01 | 1.06 | 1.53 | 6 |
| 978 | 0.5 | <0.01 | <0.01 | 0.59 | 0.80 | <2 |
| 979 | 0.5 | <0.01 | <0.01 | 0.19 | 1.75 | <2 |
| 980 | 0.4 | <0.01 | <0.01 | 0.75 | 0.81 | 5 |
| 981 | <0.1 | <0.01 | <0.01 | <0.01 | 0.02 | <2 |
| 982 | 0.4 | <0.01 | <0.01 | 0.75 | 0.25 | <2 |
| 983 | 0.7 | <0.01 | <0.01 | 0.66 | 0.63 | 2 |
| 984 | 4.0 | <0.01 | 0.26 | 1.06 | 2.46 | 22 |
| 985 | 0.8 | <0.01 | <0.01 | 0.54 | 1.16 | 2 |
| 986 | 1.5 | <0.01 | <0.01 | 0.31 | 0.86 | <2 |
| 987 | 1.4 | <0.01 | <0.01 | 0.25 | 0.86 | <2 |
| 988 | 0.8 | <0.01 | <0.01 | 0.38 | 0.44 | <2 |
| 989 | 0.8 | <0.01 | <0.01 | 0.12 | 0.73 | <2 |
| 990 | 1.2 | <0.01 | <0.01 | 0.30 | 0.41 | <2 |
| 991 | 0.4 | <0.01 | <0.01 | 2.45 | 0.95 | 11 |
| 992 | 0.5 | <0.01 | <0.01 | >5.00 | 0.91 | 19 |
| 993 | 16.8 | <0.01 | <0.01 | 0.97 | 0.29 | 7 |

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Lab Ref BT086112
 Client Ref **956-1006**
 Project *
 Reported 19/02/19
 Status Final
 Page Page 5 of 8

ANALYTICAL REPORT

| | XRF75E % 0.1 50 Ca | XRF75E % 0.01 5 WO3 | XRF75E % 0.01 50 Cu | XRF75E % 0.01 5 Pb | XRF75E % 0.01 5 Zn | AAS40Q PPM 2 200 Ag |
|------|--------------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|
| 994 | 3.9 | <0.01 | <0.01 | 0.13 | 0.65 | <2 |
| 995 | 1.2 | <0.01 | <0.01 | 0.31 | 0.40 | 2 |
| 996 | 5.2 | <0.01 | <0.01 | 0.11 | 0.67 | <2 |
| 997 | 1.2 | <0.01 | <0.01 | 0.08 | 0.75 | <2 |
| 998 | 0.8 | <0.01 | <0.01 | 0.20 | 0.34 | <2 |
| 999 | 0.6 | <0.01 | <0.01 | 0.26 | 0.08 | <2 |
| 1000 | <0.1 | <0.01 | <0.01 | <0.01 | <0.01 | <2 |
| 1001 | 0.4 | <0.01 | <0.01 | 0.78 | 0.27 | 3 |
| 1002 | 0.4 | <0.01 | <0.01 | 2.49 | 0.33 | 17 |
| 1003 | 0.6 | <0.01 | 0.01 | >5.00 | 0.19 | 122 |
| 1004 | 0.4 | <0.01 | <0.01 | 0.20 | 0.18 | 2 |
| 1005 | 0.8 | <0.01 | <0.01 | 0.18 | 0.19 | <2 |
| 1006 | 0.8 | <0.01 | <0.01 | 0.02 | 0.21 | <2 |

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Lab Ref BT086112
 Client Ref **956-1006**
 Project *
 Reported 19/02/19
 Status Final
 Page Page 6 of 8

ANALYTICAL REPORT

| Scheme | AAS40Q | AAS43B | AAS43B | AAS43B |
|-----------------|--------|--------|--------|--------|
| Units | PPM | % | % | PPM |
| Detection Limit | 2 | 0.01 | 0.01 | 50 |
| Upper Limit | 200 | 40 | 100 | 40000 |
| | Ag(R) | Pb | Zn | Ag |
| 956 | <2 | | | - |
| 957 | | | | - |
| 958 | | | | - |
| 959 | | | | - |
| 960 | | | | - |
| 961 | | | | - |
| 962 | | | | - |
| 963 | | | | - |
| 964 | | | | - |
| 965 | | | | - |
| 966 | | | | - |
| 967 | | | | - |
| 968 | | | | - |
| 969 | | | 7.16 | - |
| 970 | | 9.86 | 8.53 | - |
| 971 | | | | - |
| 972 | | | | - |
| 973 | | | | - |
| 974 | | | | - |
| 975 | | | | - |
| 976 | | | | - |
| 977 | | | | - |
| 978 | | | | - |
| 979 | | | | - |
| 980 | | | | - |
| 981 | | | | - |
| 982 | | | | - |
| 983 | | | | - |
| 984 | | | | - |
| 985 | | | | - |
| 986 | | | | - |
| 987 | | | | - |
| 988 | | | | - |
| 989 | | | | - |
| 990 | | | | - |
| 991 | | | | - |
| 992 | | 6.55 | | - |
| 993 | | | | - |

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Lab Ref BT086112
Client Ref **956-1006**
Project *
Reported 19/02/19
Status Final
Page Page 7 of 8

ANALYTICAL REPORT

| | AAS40Q PPM 2 200 Ag(R) | AAS43B % 0.01 40 Pb | AAS43B % 0.01 100 Zn | AAS43B PPM 50 40000 Ag |
|------|------------------------------------|---------------------------------|----------------------------------|------------------------------------|
| 994 | | | | - |
| 995 | | | | - |
| 996 | | | | - |
| 997 | | | | - |
| 998 | | | | - |
| 999 | 3 | | | - |
| 1000 | | | | - |
| 1001 | | | | - |
| 1002 | | | | - |
| 1003 | 123 | 10.9 | | - |
| 1004 | <2 | | | - |
| 1005 | | | | - |
| 1006 | | | | - |

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Lab Ref BT086112
Client Ref **956-1006**
Project *
Reported 19/02/19
Status Final
Page Page 8 of 8

DESCRIPTION

AAS40Q : AAS after DIG40Q
AAS43B : AAS after DIG43B
CRU20 : Coarse Crushing, 6mm
CRU22 : Crush >3.5kg, 10 Mesh (2mm), Per kg
DIG40Q : 4 Acid Digest 0.2g-20ml
DIG43B : 4 Acid Digest 0.25g-500ml
DRY10 : Sample Drying, 105°C, <3.5kg
PUL45 : Pulv, Cr Steel, 75µm, 250g
SPL26 : Riffle Splitting, Per kg
XRF75E : Pressed Powder XRF (2g+12g diluent)