ASSAY REPORT

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SAMPLE NUMBER | DESCRIPTION | Cu | Pb | Zn | As | Cd | Fe | Si01 | Ceo | Ag  f/t | Ge | Ga |
| 13.10 | Slag fuming Project: |  |  |  |  |  |  |  |  |  |  |  |
| ZW.55 | BF' Slag·to1HJTEK Oct/8 | 0.53 | 2.6 | 11.5 | a,44 | 0,00E | 14,7 | 28,0 | 21,5 | 7 | ,0470 | ,021 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | S |  | C |  |  |  |  |  |  |  |  |
|  |  | 0.60 |  | 0.09 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZW56 | Charcoal ta MINTEK | V.H | Ash | f.C |  | Kj/k |  |  |  |  |  |  |
|  |  | 18 | 1.3 | 0.3 |  | 2’736 |  |  |  |  |  |  |

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| SAMPLE NUMBER | DESCRIPTION | Cu | Pb | Zn | Fe |  | Ge |  | Ga |
|  |  |  |  |  |  |  |  |  |  |
|  | 1st hot furnace |  |  |  |  |  |  |  |  |
| ZE 9 | Feed |  | 2.1 | 10.6 | 114.4 |  | D,04 |  | J,02 |
| 10 | Metal |  | 0.1 | 0 | 85.8 |  | 0.02 |  | b,016 |
| 11 | Slag |  | 0.1 | 0.1 | 13.9 |  | D,DD |  | b,019 |
| 12 | Inside sleeve 3cm |  | 9.8 | 21.9 | 10.9 |  | 0.0 |  | B,015 |
| 13 | Inside sleeve 15cm |  | 1.6 | 10.0 | 16.1 |  | D,01E |  | B,012 |
|  |  |  |  |  |  |  |  |  |  |
|  | 2nd hot furnace |  |  |  |  |  |  |  |  |
| 14 | Feed |  | 2.5 | 10.2 | 13.8 |  | 0.46 | J,019 |  |
| 15 | Metal |  | 3.3 | 1.1 | 6.5 |  | D,58E | b,005 |  |
| 16 | Slag |  | 0.2 | 3.7 | 7.1 |  | 0.026 | j,015 |  |
| 17 | Sleeve 3cm |  | 2.9 | 5.8 | 3.0 |  | D,047 | b,014 |  |
| 18 | Sleeve 15cm |  | 2.0 | 13.4 | 4.9 |  | 0.032 | J,13 |  |

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| SAMPLE NUMBER | DESCRIPTION | Cu | Pb | Zn | Fe | Ge | Ga | Ca |
|  |  |  |  |  |  |  |  |  |
|  | 1st hot furnace |  |  |  |  |  |  |  |
| ZF 9 | Feed |  | 2,1 | 10,6 | 14,4 | D,046 | 0,020 | o,49 |
| 10 | Metal |  | 0,1 | □' 1 | 85,8 | J,025 | 0,016 | D,03 |
| 11 | Slag |  | (0,1. | □,1 | 13,9 | ,DD1 | □,019 | 0,60 |
| 12 | Inside sleeve 3cm |  | 9,8 | 21,9 | 10,9 | J,□73 | □,015 | D,29 |
| 13 | Inside sleeve 15cm |  | 1,6 | 10,0 | 16,1 | □,□18 | 0,01.c | 0,72 |
| 19 | Furnace/water jacket |  | 7,3 | 38,3 | 9,1 | 0,174 | □,019 | D,33 |
| 20 | Primary scrubber/secondary tower |  | 13,7 | 58,3 | 2,7 | 0,241 | 0,017 | a,19 |
|  |  |  |  |  |  |  |  |  |
|  | 2nd hot furnace |  |  |  |  |  |  |  |
| ZF 14 | Feed |  |  | 2,5 | 10,2 | 13,8 | D,046 | o,□19 |
| 15 | Metal |  |  | 3,3 | 1,1 | 46,5 | D,586 | 0,005 |
| 16 | Slag |  |  | 0,2 | 3,7 | 17,1 | D,026 | 0,015 |
| 17 | Sleeve 3cm |  |  | 2,9 | 5,8 | 13,o | J,047 | □,□14 |
| 18 | Sleeve 15cm |  |  | 2,0 | 13,4 | 14,9 | J,032 | 0,013 |
| 21 | Furnace exit/water |  |  | 8,3 | 52,9 | 5,0 | 0,141 | 0 ,o1 |
| 22 | Primary scrubber |  |  | 16,□ | 52,1 | 3,2 | 0,194 | 0,01L |
| 23 | Secondary tower |  |  | 8,9 | 44,5 | 4,8 | I0,181 | 0 ,□17 |

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| SAMPLE NUMBER | DESCRIPTION | Cu | Pb | Zn | Fe | Ge | Ga | Na |
|  |  |  |  |  |  |  |  |  |
|  | 1st hot furnace |  |  |  |  |  |  |  |
| ZF 24 | Feed |  | 2,4 | 1□,6 | 15,9 | o,□51 | D,02( | D ,45 |
| 25 | Metal |  | 0,28 | 3,3 | 17,5 | 0,033 | 0,02; | 0,54 |
| 26 | Slag |  | 3,3 | o,85 | 31,2 | D,·268 | 0 ,DD; | <,□1 |
| 27 | Furnace exit/water jacket |  | 12,2 | 59,5 | 2,9 | O,·178 | 0,011 | 0,22 |
| 28 | Primary scrubber |  | 17,3 | 58,□ | 2,1 | D, 193 | 0,010 | □.,18 |
| 29 | Sleeve 3cm inside |  | 8,9 | 19,9 | 11,7 | 0,100 | 0,015 | □,39 |
| 30 | Sleeve 15cm inside |  | 1,8 | 4,4 | 18,1 | □,025 | □,009 | o,43 |
| 31 | Sleeve outside |  | 19,7 | 56,2 | 4,1 | 0,20□ | □,024 | o,46 |
|  |  |  |  |  |  |  |  |  |
|  | Liquid samples  (all results in mg/1) |  |  |  |  |  |  |  |
| 32 | Primary scrubber test 1 |  | <□,1 | 34\* |  | <□,5◄ | D,025 | 26 |
| 33 | Primary scrubber test 2 |  | <□,1 | 0,1 |  | <□,5' | 0 ,025 | 14 |
| 34 | Primary scrubber test 3 |  | <0,1 | 0,1 |  | <□,5< | 0,□25 | 24 |
|  |  |  |  |  |  |  |  |  |
|  | \* checked |  |  |  |  |  |  |  |